Library
Aug Acc
26/7/93

Indian Journal of Chemistry

(Section A : Inorganic, Physical, Theoretical & Analytical)

Volume 31A, 1992

सी.एस.आई.आर. क्षेत्रीय केन्द्र
C.S.I.R. REGIONAL CENTRE
डायरी नं./DIARY No. 324
दिनांक/DATE 26/7/93
लुधियाना/LUDHIANA-141 006

INDEX

pages 987-1024

Publications & Information Directorate
Dr. K.S. Krishnan Marg, New Delhi 110 012

Printed & Published by Dr. G.P. Phondke, Director, Publications & Information Directorate (PID)
Dr. K.S. Krishnan Marg, New Delhi 110 012, at PID

INDEX

PAGE

AB INITIO STUDIES
  AB INITIO STUDY OF BORON HYDROXY SPECIES: B(OH)4(-) AND B(OH)4 AND B(OH)3O(-) 553
  SELECTION OF BASIS SETS IN AB INITIO STUDIES OF MOLECULAR STRUCTURE 550
ABD-ALLA FAWZIA F SEE EBEID FIKRY M 921
ABDUL JAMEEL A SEE PILLAY M KRISHNA 46
ABDULSAMATH S SEE RAMALINGAM S K 702
ACETATE ION
  PERMSELECTIVITY OF ACETATE ION TO NITRATE ION IN ELECTRODIALYSIS OF AQUEOUS SOLUTIONS 369
ACETIC ACID
  POTENTIOMETRIC STUDIES ON ELECTROLYTICALLY GENERATED MANAGANES(III) ACETATE IN AQUEOUS ACETIC ACID: OXIDATION OF THIOSEMICARBAZIDE, ITS METAL COMPLEXES AND THIOSEMICARBAZONES 49
ACETONE
  BELOUSOV-ZHABOTINSKII REACTION WITH ACETONE ALONE AS ORGANIC SUBSTRATE IN THE PHOSPHORIC ACID MEDIUM 182
ACHARYA ACHYUTA N SEE DASH ANADI C 747
832
ACID BROMATE
  KINETICS AND MECHANISM OF OXIDATION OF THIOSEMICARBAZONES BY ACID BROMATE 175
ACID CATALYSIS
  USE OF ZIRCONIUM TUNGSTATE IN ACID CATALYSIS: SOME ESTERIFICATION REACTIONS 803
ACID HYDROLYSIS
  ACID HYDROLYSIS OF IMINODIACETATO TETRAAMMINE COBALT(III), [CO(NH3)(4)IDAH](CLO4)2 COMPLEX 898
  KINETICS AND MECHANISM OF ACID AND BASE HYDROLYSIS OF CIS-(BIOXALATO) (IMIDAZOLE)BIS(ETHYLENEDIAMINE)COBALT(III) ION:A STUDY OF THE ROLE OF THE COORDINATED IMIDAZOLE AND ITS ANION 832
ACID PERMANGANATE
  KINETICS AND MECHANISM OF OXIDATION OF GAMMA-OXOACIDS BY ACID PERMANGANATE 845
ACIDIC AQUEOUS SOLUTION
  REACTION PATTERN OF AMINOACID CHELATES OF COBALT(III) IN ACIDIC AQUEOUS SOLUTION 187
ACIDIC MEDIUM
  BROMATE ION OXIDATION OF COBALT(II) COMPLEX OF ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID IN AQUEOUS ACIDIC MEDIUM: EXISTENCE OF AN AUTOCATALYTIC PROCESS 171
ACIDIC POLYSACCHARIDE
  STUDIES ON INTERACTION OF CATIONIC DYE WITH BACTERIAL ACIDIC POLYSACCHARIDE 77
ACRYLATE
  ALTERNATING COPOLYMERIZATION OF ZINC ACRYLATE WITH STYRENE INITIATED BY AS2S3-STYRENE COMPLEX 778
ADENINE
  MIXED LIGAND COMPLEX FORMATION OF CU2+ ION WITH 6-AMINOPENICILLANIC ACID IN THE PRESENCE OF BIPYRIDINE, GLYCINE AND ADENINE 478
ADHARANI T K SEE REDDY P RABINDRA 855
ADSORBENT
  COLUMN PRECONCENTRATION OF PALLADIUM USING PROTOCATECHUIC ACID AND TETRADECYLDIMETHYLBENZYLAMMONIUM-IODIDE-NAPHTHALENE AS AN ADSORBENT 67
AGARWAL D D
  OLEFIN EPOXIDATION USING IRON(III)SCHIFF BASE COMPLEXES AS CATALYST 785
AGARWAL VINITA SEE AGARWAL D D 785
AGGARWAL ASHVIN K SEE SINGHAL KIRAN 797
AGGARWAL SADHANA SEE SHARMA V K 398
AGRAWAL B P
  ALTERNATING COPOLYMERIZATION OF ZINC ACRYLATE WITH STYRENE INITIATED BY AS2S3-STYRENE COMPLEX 778
AHMAD J U SEE AHMED I 699
AHMAD NIHAL SEE SHUKLA P R 205
AHMED I
  SIGMA-BONDED ORGANOMETALLICS OF IRON AND THEIR FACILE CONVERSION INTO PI COMPLEXES 699
AIR-WATER INTERFACE
  SPREADING OF C-60 ON AIR-WATER INTERFACE F42
AKHTAR NAHEED SEE KUSHWAH R S 439
ALANINE
  ION-SELECTIVE ELECTRODE BASED ON DINITROPHENOL-ALANINE CONJUGATE 639
ALI LAILA I SEE EBEID FIKRY M 921
ALKALI HALIDE ADDITIVES
  EFFECT OF ALKALI HALIDE ADDITIVES ON THE GAMMA RADIOLYSIS OF THORIUM NITRATE 915
ALKALI METAL CATIONS
  TRANSPORT OF ALKALI METAL CATIONS THROUGH LIQUID MEMBRANE USING NON-CYCLIC SYNTHETIC IONOPHORES 383
ALKALI METAL ION-HYDROGEN ION EXCHANGE
  THERMODYNAMIC EQUILIBRIUM CONSTANTS OF ALKALI METAL ION-HYDROGEN ION EXCHANGES AND RELATED SWELLING FEEE ENERGIES IN PERFLUOROSULPHONATE IONOMER MEMBRANE (NAFION-117) IN AQUEOUS MEDIUM 317
ALKALINE MEDIUM
  KINETICS AND MECHANISM OF OXIDATION OF MONOSACCHARIDES BY SODIUM-N-BROMOBENZENESULPHONAMIDE IN ALKALINE MEDIUM 838
  OXIDATIONS WITH PERMANGANATE IN A STRONG ALKALINE MEDIUM: CALCULATION OF DEPROTONATION CONSTANT 417
ALKALINE OSMIUM TETROXIDE
  KINETICS AND MECHANISM OF OXIDATION BY METAL IONS: PART XV-OXIDATION OF GLYOXALATE ION BY ALKALINE OSMIUM TETROXIDE 788
ALKOXIDES
  SYNTHESIS AND CHARACTERIZATION OF HOMO AND HETERO TRINUCLEAR ALKOXIDES 889

PAGE

ALKOXOMETALLATES
SYNTHESIS AND CHARACTERIZTION OF NOVEL HOMO- AND HETERO-LEPTIC ALKOXOMETALLATES OF MANGANESE(II) 156
N- ALKYL-2-MERCAPTOACETAMIDE
SYNTHESIS AND CHARACTERIZATION OF N-ALKYL-2-MERCAPTOACETAMIDE COMPLEXES OF ANTIMONY(III) 281
ALPO4-11
SUBSTITUTED ALPO4-11 MOLECULAR SIEVES—SAPO-11 AND COAPO-11:SYNTHESIS, ACIDITY AND ALKYLATION OF TOLUENE WITH METHANOL 742
ALPO4-8
SYNTHESIS AND CHARACTERIZATION OF MOLECULAR SIEVES WITH VFI TOPOLOGY AND THEIR TRANSFORMATION TO ALPO4-8 737
ALTERNATING COPOLYMERIZATION
ALTERNATING COPOLYMERIZATION OF ZINC ACRYLATE WITH STYRENE INITIATED BY AS2S3-STYRENE COMPLEX 778
AMALRAJ R V SEE SINHA P K 808
AMIDE GROUP
SEPARATION OF PLATINUM AND PALLADIUM USING A CHELATING RESIN CONTAINING QUINALDINIC ACID AMIDE GROUP 735
AMIN NABIL H SEE EBEID FIKRY M 921
AMINABHAVI T M SEE HAROGOPPAD S B 328
AMINE COMPLEXES
SYNTHESIS, CHARACTERISATION AND REACTIVITY OF CU(II) AMINE COMPLEXES SUPPORTED ON AN INORGANIC ION EXCHANGER, ZIRCONIUM MOLYBDATE 771
AMINES
CORRELATION OF SOME PHYSICAL PROPERTIES OF ALIPHATIC MONOALCOHOLS AND AMINES BY GRAPH THEORY 141
NITROGEN DERIVATIVES OF C-60 AND C-70 : INTERACTION OF FULLERENES WITH NITROGEN IN GAS PHASE AND WITH AMINES IN SOLUTION PHASE F27
AMINO ACID CHELATES
REACTION PATTERN OF AMINOACID CHELATES OF COBALT(III) IN ACIDIC AQUEOUS SOLUTION 187
AMINO ACIDS
STUDIES ON BIOLOGICALLY RELEVANT TERNARY METAL COMPLEXES: PART VI — STABILITY OF TERNARY CO(II), NI(II),CU(II) AND ZN(II) COMPLEXES INVOLVING AMINOPOLYCARBOXYLIC ACIDS AND AMINO ACIDS 256
2- AMINOBENZIMIDAZOLE
ELECTROCHEMICAL OXIDATION OF 2-AMINOBENZIMIDAZOLE AT PYROLYTIC GRAPHITE ELECTRODE 794
AMINOLIGANDS
COMPLEXATION OF CROSSLINKED POLYACRYLAMIDE-SUPPORTED AMINOLIGANDS WITH CU(II): EFFECT OF CROSSLINKING ON COMPLEXATION KINETICS 673
6- AMINOPENICILLANIC ACID
MIXED LIGAND COMPLEX FORMATION OF CU2+ ION WITH 6-AMINOPENICILLANIC ACID IN THE PRESENCE OF BIPYRIDINE, GLYCINE AND ADENINE 478
AMINOPOLYCARBOXYLATORUTHENIUM(III)
HYDROGEN BONDING OR TRANSIENT COORDINATION OF PENDANT GROUP: CAUSE FOR LABILITY IN LIGAND SUBSTITUTION REACTION OF AMINOPOLYCARBOXYLATORUTHENIUM (III) COMPLEXES 152

PAGE

AMINOPOLYCARBOXYLIC ACIDS
BINARY COMPLEXES IN SOLUTION OF SCHIFF BASE LIGANDS, O-HYDROXYNAPHTHALIDENE BENZOYL AND SALICYLOYL HYDRAZONE WITH THORIUM, URANYL AND VANADYL IONS AND TERNARY COMPLEXES OF THORIUM WITH AMINOPOLYCARBOXYLIC ACIDS AS PRIMARY LIGANDS 764
REVERSIBLE BINDING OF CARBON MONOXIDE WITH RU(III) AMINOPOLYCARBOXYLIC ACID COMPLEXES 883
STUDIES ON BIOLOGICALLY RELEVANT TERNARY METAL COMPLEXES: PART VI — STABILITY OF TERNARY CO(II), NI(II),CU(II) AND ZN(II) COMPLEXES INVOLVING AMINOPOLYCARBOXYLIC ACIDS AND AMINO ACIDS 256
2- AMINOTHIOPHENOL
SYNTHESIS, CHARACTERIZATION AND REACTIONS OF DIORGANOTIN(IV) COMPLEXES WITH SOME N2S2 DONOR LIGANDS DERIVED FROM 2-AMINOTHIOPHENOL 205
AMMONIUM IODIDE MEDIA
CATION EXCHANGE CHROMATOGRAPHIC SEPARATION OF A NUMBER OF METAL IONS IN AMMONIUM IODIDE MEDIA 901
ANIL KUMAR
MACROCYCLE-FACILITATED TRANSPORT OF URANYL IONS ACROSS SUPPORTED LIQUID MEMBRANES USING DICYCLOHEXANO-18-CROWN-6 AS MOBILE CARRIER 373
SEE MEHROTRA K N 756
SEE SIDHU K S 83
ANION EXCHANGE SELECTIVITY
ANION EXCHANGE SELECTIVITIES OF ZN(II), CD(II),HG(II) AND BA(II) IN KI SOLUTIONS 285
ANION INTERACTION
PREPARATION, CHARACTERIZATION AND PROPERTIES OF C-60 AND C-70: SPECTROSCOPY, STRUCTURE, ANION INTERACTION WITH ELECTRON DONORS AND SUPERCONDUCTIVITY F5
ANIONIC MICELLES
MICELLAR EFFECTS ON THE REACTIONS OF COMPLEX IONS IN SOLUTION: PART 12 — KINETICS OF REVERSIBLE COMPLEXATION OF OXALATOPENTAAMMINECOBALT(III) WITH NICKEL(II) AND IRON(III) IN THE PRESENCE OF ANIONIC MICELLES OF SODIUM DODECYL SULPHATE IN AQUEOUS MEDIUM 166
ANIPINDI N R SEE SATYANARAYANA T 125
ANISOLE
EVALUATION OF SOUND VELOCITY IN BINARY SYSTEMS OF ANISOLE WITH SOME AROMATIC COMPOUNDS BY DIFFERENT METHODS 577
ANNOUNCEMENTS
INTERNATIONAL CONFERENCE ON ENERGY ENVIRONMENT AND ELETROCHEMISTRY 736
INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT AND ELECTROCHEMISTRY F112
NATIONAL SYMPOSIUM ON RECENT ADVANCES IN CHIRAL SYNTHESIS 140
NOMINATIONS INVITED FOR CSIR YOUNG SCIENTIST AWARDS: 1993 986
NOMINATIONS INVITED FOR SHANTI SWARUP BHATNAGAR PRIZES IN SCIENCE AND TECHNOLOGY: 1993 986
ANOOP KUMAR SEE GOYAL R N 237
ANSARI MOHD AYUB SEE KUSHWAH R S 439
ANTIMONY
REACTIONS OF TRIARYLANTIMONY WITH SOME CARBOXYLIC ACIDS 475

INDEX

PAGE

STUDY ON THE IMMOBILIZATION BEHAVIOUR OF BARIUM,CADMIUM, AND ANTIMONY OVER SN(IV) AND CE(IV) OXIDES 120
ANTIMONY AS HETEROATOM
HETEROCYCLIC COMPOUNDS CONTAINING ANTIMONY: PART 5 - SYNSTHESIS AND SPECTRAL STUDIES OF SOME FIVE-MEMBERED HETEROCYCLES CONTAINING ANTIMONY AS HETEROATOM 23
ANTIMONY(III)
SYNTHESIS AND CHARACTERIZATION OF N-ALKYL-2-MERCAPTOACETAMIDE COMPLEXES OF ANTIMONY(III) 281
THE EFFICACY OF ANTIMONY(III) MOLYBDOTUNGSTATE AS AN EXCHANGER FOR THE SEPARATION OF LEAD 136
AQUA-LIGANDS
KINETIC AND MECHANISTIC STUDIES ON SUBSTITUTION REACTION OF AQUA-LIGANDS FROM CIS-DIAQUABIS[2-M-TOLYLAZO)-PYRIDINE]RUTHENIUM(II) ION WITH 2,2'-BIPYRIDINE IN AQUEOUS MEDIUM 688
AQUAPENTAAMMINECOBALT(III)
MEDIUM EFFECTS ON THE ELECTRON-TRANSFER PROCESSES: REDUCTION OF AQUAPENTAAMMINECOBALT(III) BY HEXACYANOFERRATE(II) IN ETHYLENEGLYCOL-WATER, ETHYLENE CA BONATE-WATER AND UREA-WATER MEDIA 824
AQUOETHYLENEDIAMINE-TETRAACETATORUTHENIUM(III)
CRYSTAL AND MOLECULAR STRUCTURE OF AQUOETHYLENEDIAMINE-TETRAACETATORUTHENIUM(III) AND ITS EXTRAORDINARY LABILITY TOWARDS SUBSTITUTION 303
ARSENIC TRITHIOPHENOXIDE
A NEW METHOD OF SYNTHESIS OF ARSENIC TRITHIOPHENOXIDE 279
AS2S3-STYRENE COMPLEX
ALTERNATING COPOLYMERIZATION OF ZINC ACRYLATE WITH STYRENE INITIATED BY AS2S3-STYRENE COMPLEX 778
ASCORBATE SOLUTION
LIQUID-LIQUID EXTRACTION OF MOLYBDENUM(VI) FROM ASCORBATE SOLUTION WITH HIGH MOLECULAR WEIGHT AMINES 265
ASOPA RACHNA
CORELATION ANALYSIS OF REACTIVITY IN THE OXIDATION OF SUBSTITUTED MALONIC ACIDS BY PYRIDINIUM FLUOROCHROMATE 706
ATAMJYOT
SPECTROPHOTOMETRIC DETERMINATION OF MOLYBDENUM IN STEEL 480
AUDINOS R
DIRECT PRODUCTION OF PURE CONCENTRATED TARTARIC ACID FROM ITS SALTS BY ELECTROMEMBRANE PROCESSES 355
ELECTRIC POWER PRODUCED FROM TWO SOLUTIONS OF UNEQUAL SALINITY BY REVERSE ELECTRODIALYSIS 348
AUGHSTEEN HABIB A
PHYSICOCHEMICAL INVESTIGATION OF THE REACTIONS OF SOME ORGANOPHOSPHINE DERIVATIVES WITH CYANOGEN HALIDES 951
AUTOCATALYTIC PROCESS
BROMATE ION OXIDATION OF COBALT(II) COMPLEX OF ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID IN AQUEOUS ACIDIC MEDIUM: EXISTENCE OF AN AUTOCATALYTIC PROCESS 171
AUTOXIDATION
SURFACE-MEDIATED AUTOXIDATION OF AQUEOUS SO2 IN CERAMIC POWDER SUSPENSIONS 683
AYOKO G ADEFIKAYO
KINETICS OF THE REDUCTION OF HEXACHLOROIRIDATE(IV) BY L-METHIONINE IN AQUEOUS SOLUTIONS 975
SEE IYUN J FEMI 943
AZOMETHINES
SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF SOME ORGANOBORON COMPLEXES WITH NITROGEN DONOR AZOMETHINES 963
BACTERIAL ACIDIC POLYSACCHARIDE
STUDIES ON INTERACTION OF CATIONIC DYE WITH BACTERIAL ACIDIC POLYSACCHARIDE 77
BAG S P SEE BANERJEE TARUN KUMAR 202
SEE SILADITYA B 116
BAGUL A G
CHEMICAL PROCESSING OF HEXAGONAL SR-FERRITE: PART II - EFFECT OF MODE OF WASHING AND FILTRATON ON THE MAGNETIC PARAMETERS 661
BAJAJ H C SEE TAQUI KHAN M M 152
303, 714
BAJAJ RAKESH
SYNTHESIS AND CHARACTERIZATION OF SOME TRANSITION METAL PICRATE COMPLEXES WITH ISONICOTINIC ACID HYDRAZIDE 892
BAJPAI D D SEE ANIL KUMAR 373
BAKHSHI A K
TAILORING ELECTRICALLY CONDUCTING POLYMERS: AN OVERVIEW 291
BALAJI RAO S B
SYNTHESIS AND CHARACTERIZATION OF CO(II) AND NI(II) COMPLEXES OF 2-SUBSTITUTED BENZIMIDAZOLES 463
BALAKRISHNAN I SEE PRASAD S 737
BALUNDGI R H SEE HAROGOPPAD S B 328
BANDYOPADHYAY DEBASISH SEE DEY KAMALENDU 34
937
BANERJEE P SEE SENGUPTA A C 909
BANERJEE PRADYOT SEE MAHAMMAD ALI 171
BANERJEE TARUN KUMAR
STUDIES ON SOME SIMPLE AND MIXED LIGATED OXOVANADIUM(V) COMPLEXES OF HYDROXAMIC ACIDS 202
BANERJI KALYAN K SEE ASOPA RACHNA 706
BARIUM
STUDY ON THE IMMOBILIZATION BEHAVIOUR OF BARIUM,CADMIUM, AND ANTIMONY OVER SN(IV) AND CE(IV) OXIDES 120
BARIUM TITANATE
DIELECTRIC CHARACTERIZATION OF BTO-DERIVED BARIUM TITANATE (BaTiO3) CERAMICS 870
BARIUM TRIS(MALONATO)FERRATES(III).x.H2O
PHYSICO-CHEMICAL STUDIES ON THERMAL DECOMPOSITION OF STRONTIUM AND BARIUM TRIS(MALONATO)FERRATES(III).x.H2O 596
BARIUM(II)
ANION EXCHANGE SELECTIVITIES OF ZN(II), CD(II),HG(II) AND BA(II) IN KI SOLUTIONS 285
BASE CATALYSED HYDROLYSIS
BASE CATALYSED HYDROLYSIS OF BETA2-CIS-(CHLORO)(BENZIMIDAZOLE)(TRIEN)COBALT(III) CATION: A COMPARISON OF THE REACTIVITIES OF THE BENZIMIDAZOLE AND BENZIMIDAZOLATO SPECIES OF THE COMPLEX 747

PAGE

BASE HYDROLYSIS
KINETICS AND MECHANISM OF ACID AND BASE HYDROLYSIS OF CIS-(BIOXALATO)(IMIDAZOLE)BIS(ETHYLENEDIAMINE)COBALT(III) ION:A STUDY OF THE ROLE OF THE COORDINATED IMIDAZOLE AND ITS ANION 832
BASHEER AHAMED K A SEE SIKKANDAR G 845
BASKARAN G
ON THE ORIGIN OF SUPERCONDUCTIVITY AND ANOMALOUS NORMAL STATE PROPERTIES OF DOPED SOLID C-60 F104
BASSI P S
PHYSICO-CHEMICAL STUDIES ON THERMAL DECOMPOSITION OF STRONTIUM AND BARIUM TRIS(MALONATO)FERRATES(III).x.H2O 596
BASU S SEE KONAR B 735
BATCH REACTOR
CHEMICAL INSTABILITY AND PERIODIC PRECIPITATION OF CUCRO4 IN BATCH AND FLOW REACTORS 612
BELOUSOV-ZHABOTINSKII REACTION
BELOUSOV-ZHABOTINSKII REACTION WITH ACETONE ALONE AS ORGANIC SUBSTRATE IN THE PHOSPHORIC ACID MEDIUM 182
BENZALDEHYDES
KINETICS OF OXIDATION OF PARA- AND META-SUBSTITUTED BENZALDEHYDES BY PYRIDINIUM CHLOROCHROMATE 46
1,4- BENZENEDIOL
THE STOICHIOMETRY AND KINETICS OF OXIDATION OF 1,4-BENZENEDIOL BY DIAQUOTETRAKIS(2,2'-BIPYRIDINE)-MU-OXODIRUTHENIUM(III) CATION IN PERCHLORATE MEDIUM 943
BENZIMIDAZOLATO SPECIES
BASE CATALYSED HYDROLYSIS OF BETA2-CIS-(CHLORO)(BENZIMIDAZOLE)(TRIEN)COBALT(III) CATION: A COMPARISON OF THE REACTIVITIES OF THE BENZIMIDAZOLE AND BENZIMIDAZOLATO SPECIES OF THE COMPLEX 747
BENZIMIDAZOLES
SYNTHESIS AND CHARACTERIZATION OF CO(II) AND NI(II) COMPLEXES OF 2-SUBSTITUTED BENZIMIDAZOLES 463
BENZO-ANNELATED POLYACENES
CYCLIC CONJUGATION IN BENZO-ANNELATED POLYACENES 647
BENZOATES
EFFECT OF 3-FLUORO-4-CYANO SUBSTITUTED BENZOATES IN THE FORMATION OF INDUCED SMECTIC PHASES WITH N-[4-ETHOXYBENZYLIDENE]-4'-N-BUTYLANILINE 658
N- BENZOYLPHENYL HYDROXYLAMINE
SEPARATION AND RECOVERY OF VANADIUM FROM A CHELATING ION EXCHANGER CONTAINING N-BENZOYLPHENYL HYDROXYLAMINE AS A FUNCTIONAL GROUP 288
BENZYL BROMIDE
SOLVATION MODELS IN THE REACTION BETWEEN BENZYL BROMIDE AND S-TRIAZOLE 959
BHAGAT S
REACTIVITY AND ELECTRIC TRANSPORT OF NONSTOICHIOMETRIC RARE EARTH OXIDES 601
BHARATHI A SEE SUNDAR C S F92
BHARDWAJ S K SEE NAGESHWARA RAO CH V 716
BHARGAVA RACHNA
SURFACE-MEDIATED AUTOXIDATION OF AQUEOUS SO2 IN CERAMIC POWDER SUSPENSIONS 683
BHASKAR SARMA P V R SEE SARANGI K 379

PAGE

BHAT K ISHWAR
POTENTIOMETRIC STUDIES ON ELECTROLYTICALLY GENERATED MANGANESE(III) ACETATE IN AQUEOUS ACETIC ACID: OXIDATION OF THIOSEMICARBAZIDE, ITS METAL COMPLEXES AND THIOSEMICARBAZONES 49
BHAT S V SEE RAO C N R F5
BHATNAGAR PANKAJ SEE MISHRA DILIP KUMAR 91
BHATT K N SEE TAQUI KHAN M M 714
BHATT PALLAVI SEE ASOPA RACHNA 706
BHATT S S SEE CHAUDHARY S C 279
BHATTACHARYA M SEE SENGUPTA A C 909
BHATTACHARYA PABITRA K
SEE TALELE GANGADHAR G 889
BHATTACHARYA RUMA
REACTION PATTERN OF AMINOACID CHELATES OF COBALT(III) IN ACIDIC AQUEOUS SOLUTION 187
BHATTACHARYYA ANURADHA
AB INITIO STUDY OF BORON HYDROXY SPECIES: B(OH)4(-) AND B(OH)4 AND B(OH)3O(-) 553
BHATTACHARYYA D K
STUDY ON THE IMMOBILIZATION BEHAVIOUR OF BARIUM,CADMIUM, AND ANTIMONY OVER SN(IV) AND CE(IV) OXIDES 120
BI-IONIC POTENTIAL
STUDIES OF INORGANIC PRECIPITATE MEMBRANE: EVALUATION OF MEMBRANE SELECTIVITY FROM BI-IONIC POTENTIAL AND CONDUCTIVITY MEASUREMENTS 439
BI-SR-CA-CU-O SYSTEM
EFFECT OF PROCESSING PARAMETERS ON BI-SR-CA-CU-O-SYSTEM 270
BINARY COMPLEXES
BINARY COMPLEXES IN SOLUTION OF SCHIFF BASE LIGANDS, O-HYDROXYNAPHTHALIDENE BENZOYL AND SALICYLOYL HYDRAZONE WITH THORIUM, URANYL AND VANADYL IONS AND TERNARY COMPLEXES OF THORIUM WITH AMINOPOLYCARBOXYLIC ACIDS AS PRIMARY LIGANDS 764
BINARY LIQUID MIXTURES
MOLECULAR TRANSPORT OF BINARY LIQUID MIXTURES INTO EPDM AND NBR MEMBRANES AT 25 DEG C 328
BINARY MIXTURES
EXCESS MOLAR VOLUMES OF BINARY MIXTURES CONTAINING NITROTOULENE AT 308.15 K 721
THERMODYNAMICS OF BINARY MIXTURES OF NON-ELECTROLYTES: MOLAR EXCESS GIBBS FREE ENERGY OF MIXING 398
BINARY SYSTEMS
EVALUATION OF SOUND VELOCITY IN BINARY SYSTEMS OF ANISOLE WITH SOME AROMATIC COMPOUNDS BY DIFFERENT METHODS 577
VISCOMETRIC BEHAVIOUR OF BINARY SYSTEMS OF METHYL ETHYL KETONE WITH METHYLENE CHLORIDE, 1,2-DICHLOROETHANE, TRICHLOROETHENE, TETRACHLOROETHENE AND CYCLOHEXANE 626
BINDING MODES
DIFFERENT BINDING MODES OF DIMETHYLGLYOXIME (DMG-H2) TOWARDS RU(II) ION: SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF [RU(II)CL2(DMG-H2)(DMSO)2] AND SYNTHESIS OF [RU(II)CL(DMG-H2)2(DMSO)]CL AND [RU(II)(DMG-H)2(DMSO)2] 17
BIOLOGICALLY RELEVANT TERNARY METAL COMPLEXES
STUDIES ON BIOLOGICALLY RELEVANT TERNARY

INDEX

PAGE

METAL COMPLEXES: PART VI — STABILITY OF TERNARY CO(II), NI(II),CU(II) AND ZN(II) COMPLEXES INVOLVING AMINOPOLYCARBOXYLIC ACIDS AND AMINO ACIDS 256
BIOMOLECULES
OXYGEN-MEDIATED SPECTRAL OSCILLATIONS IN BIOMOLECULES AND IMPORTANCE OF COEXISTING TAUTOMERS: CASE OF GUANINE 558
CIS-(BIOXALATO)(IMIDAZOLE) BIS(ETHYLENEDIAMINE)CO(III)
KINETICS AND MECHANISM OF ACID AND BASE HYDROLYSIS OF CIS-(BIOXALATO) (IMIDAZOLE)BIS(ETHYLENEDIAMINE)COBALT(III) ION:A STUDY OF THE ROLE OF THE COORDINATED IMIDAZOLE AND ITS ANION 832
2,2'- BIPYRIDINE
KINETIC AND MECHANISTIC STUDIES ON SUBSTITUTION REACTION OF AQUA-LIGANDS FROM CIS-DIAQUABIS[2-M-TOLYLAZO)-PYRIDINE]RUTHENIUM(II) ION WITH 2,2'-BIPYRIDINE IN AQUEOUS MEDIUM 688
BIPYRIDINE
MIXED LIGAND COMPLEX FORMATION OF CU2+ ION WITH 6-AMINOPENICILLANIC ACID IN THE PRESENCE OF BIPYRIDINE, GLYCINE AND ADENINE 478
BIS(2,2',6',2"-TERPYRIDINE)IRON(II)
KINETICS OF OXIDATION OF BIS(2,2',6',2"-TERPYRIDINE)IRON(II) BY CERIUM(IV) 125
1,3- BIS(SALICYLIDINEAMINO)THIOUREA DIHYDRATE
1,3-BIS(SALICYLIDINEAMINO)THIOUREA DIHYDRATE AS AN ANALYTICAL REAGENT FOR THE DIRECT SPECTROPHOTOMETRIC DETERMINATION OF CO(II) IN NATURAL SAMPLES 704
BLADDER MEMBRANES
PERMEATION THROUGH URINARY BLADDER MEMBRANES 565
BOHRA R SEE SEN GUPTA ARUP K 23
BOND ORBITAL APPROACH
A BOND ORBITAL APPROACH TO THEORETICAL STUDIES OF MOLECULAR PROPERTIES FROM A FULLY LOCALISED SCF METHOD 1
BONDING REPRESENTATIONS
SIMPLE STRUCTURAL AND BONDING REPRESENTATIONS OF FULLERENES F51
BOOK REVIEWS
BASIC PRINCIPLES OF MEMBRANE TECHNOLOGY: M MULDER, 1991 (M P S RAMANI) 391
FUNDAMENTALS OF GAS PHASE ION CHEMISTRY: EDITED BY KEITH R JENNINGS, 1991 (S K SARKAR & J P MITTAL) 644
OLEFIN METATHESIS AND POLYMERIZATION CATALYSTS — SYNTHESIS, MECHANISM AND UTILIZATION: EDITED BY Y IMAMOGLU, B ZUMREOGLU-KARAN AND A J AMASS, NATO ASI SERIES C, VOL 326, 1990 (PREMAMOY GHOSH) 213
THE STRUCTURE, DYNAMICS AND EQUILIBRIUM PROPERTIES OF COLLOIDAL SYSTEMS:EDITED BY D M BLOOR AND E WYN-JONES, 1990 (S P MOULIK) 139
BORICHA A B SEE TAQUI KHAN M M 457
BORON HYDROXY SPECIES
AB INITIO STUDY OF BORON HYDROXY SPECIES: B(OH)4(-) AND B(OH)4 AND B(OH)3O(-) 553
BRAHMA S K SEE BANERJEE TARUN KUMAR 202
BRAR A S
MICROSTRUCTURE AND GLASS TRANSITION TEMPERATURE DETERMINATION OF STYRENE-METHYL ACRYLATE COPOLYMERS BY C-13 NMR SPECTROSCOPY 903
BROMAMINE-B
KINETICS OF OXIDATION OF DIGLYCINE BY BROMAMINE-B IN PERCHLORIC ACID MEDIUM 752
BROMATE ION OXIDATION
BROMATE ION OXIDATION OF COBALT(II) COMPLEX OF ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID IN AQUEOUS ACIDIC MEDIUM: EXISTENCE OF AN AUTOCATALYTIC PROCESS 171
BTO-DERIVED BARIUM TITANATE
DIELECTRIC CHARACTERIZATION OF BTO-DERIVED BARIUM TITANATE (BaTiO3) CERAMICS 870
BUCKMINSTERFULLERENE
ORGANIC CHEMISTRY WITH BUCKMINSTERFULLERENE(C-60) F36
PHOTOPHYSICAL STUDIES ON BUCKMINSTERFULLERENE:C-60 F46
BUENKER ROBERT J SEE RAI SACHCHIDA N 215
BUIGUES J MARI SEE DOMENECH R GARCIA 423
BUSSIERE P
MOSSBAUER STUDIES ON TIN BEARING CATALYSTS USED FOR HYDROGENATION OF COAL (LETTER TO EDITOR) 482
BUTADIENE
A THEORETICAL INVESTIGATION OF THE LOWEST B(U) STATE OF TRANS-BUTADIENE 215
BUTYLTIN(IV) CARBOXYLATES
SYNTHESIS AND SPECTROSCOPIC STUDIES OF DI-S- AND T-BUTYLTIN(IV) CARBOXYLATES 861
C-13 NMR SPECTROSCOPY
MICROSTRUCTURE AND GLASS TRANSITION TEMPERATURE DETERMINATION OF STYRENE-METHYL ACRYLATE COPOLYMERS BY C-13 NMR SPECTROSCOPY 903
C-60
A PHOTOELECTRON SPECTROSCOPIC STUDY OF THE INTERACTION OF OXYGEN,NITROGEN AND TRANSITION METALS WITH C-60 FILMS F22
INVESTIGATIONS OF IRON ADDUCTS OF C-60: A NOVEL FeC-60 IN THE SOLID STATE WITH FE INSIDE THE C-60 CAGE F17
NITROGEN DERIVATIVES OF C-60 AND C-70 : INTERACTION OF FULLERENES WITH NITROGEN IN GAS PHASE AND WITH AMINES IN SOLUTION PHASE F27
ON THE ORIGIN OF SUPERCONDUCTIVITY AND ANOMALOUS NORMAL STATE PROPERTIES OF DOPED SOLID C-60 F104
ORGANIC CHEMISTRY WITH BUCKMINSTERFULLERENE(C-60) F36
PHOTOPHYSICAL STUDIES ON BUCKMINSTERFULLERENE:C-60 F46
PREPARATION, CHARACTERIZATION AND PROPERTIES OF C-60 AND C-70: SPECTROSCOPY, STRUCTURE, ANION INTERACTION WITH ELECTRON DONORS AND SUPERCONDUCTIVITY F5
SPREADING OF C-60 ON AIR-WATER INTERFACE F42
STRUCTURAL AND MICROSTRUCTURAL CHARACTERISTICS OF SOLID C-60 F79
STUDIES ON STRUCTURAL AND ELECTRONIC PROPERTIES OF UNDOPED AND DOPED FULLERENES C-60 AND C-70 F92
C-70
NITROGEN DERIVATIVES OF C-60 AND C-70 : INTERACTION OF FULLERENES WITH NITROGEN IN GAS PHASE AND WITH AMINES IN SOLUTION PHASE F27

	PAGE
PREPARATION, CHARACTERIZATION AND PROPERTIES OF C-60 AND C-70: SPECTROSCOPY, STRUCTURE, ANION INTERACTION WITH ELECTRON DONORS AND SUPERCONDUCTIVITY	F5
STUDIES ON STRUCTURAL AND ELECTRONIC PROPERTIES OF UNDOPED AND DOPED FULLERENES C-60 AND C-70	F92
C2B3H5 ISOMERS	
CONTRASTING ISOMER STABILITIES OF SILABORANES AND CARBORANES: SI2B3H5 AND C2B3H5 ISOMERS	645
CADMIUM	
STUDY ON THE IMMOBILIZATION BEHAVIOUR OF BARIUM,CADMIUM, AND ANTIMONY OVER SN(IV) AND CE(IV) OXIDES	120
CADMIUM SULPHIDE	
EFFECT OF PHOTODEPOSITION OF NICKEL ON THE PHOTOCATALYTIC, PHOTOELECTROCHEMICAL AND SURFACE PROPERTIES OF CDS	6
CADMIUM(II)	
ANION EXCHANGE SELECTIVITIES OF ZN(II), CD(II),HG(II) AND BA(II) IN KI SOLUTIONS	285
COMPLEXING BEHAVIOUR OF BI- AND TERDENTATE LIGANDS WITH SOME BIVALENT METAL ION	199
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES	110
CALCIUM	
CONVERSION OF METHANOL OVER METAL SALTS OF 12-MOLYBDOPHOSPHORIC ACID	921
CALCIUM(II)	
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS	855
CARBON FUEL CELL CATALYST	
HYDROGEN SPILLOVER ON A PLATINUM/CARBON FUEL CELL CATALYST	957
CARBON MONOXIDE	
REVERSIBLE BINDING OF CARBON MONOXIDE WITH RU(III) AMINOPOLYCARBOXYLIC ACID COMPLEXES	883
CARBONYL COMPLEXES	
SYNTHESIS AND CHARACTERIZATION OF RUTHENIUM(II) SCHIFF BASE CARBONYL COMPLEXES	191
CARBORANES	
CONTRASTING ISOMER STABILITIES OF SILABORANES AND CARBORANES: SI2B3H5 AND C2B3H5 ISOMERS	645
CARBOXYLIC ACIDS	
REACTIONS OF TRIARYLANTIMONY WITH SOME CARBOXYLIC ACIDS	475
CARBOXYMETHYLCELLULOSE	
ELECTROMEMBRANE FROM POLYELECTROLYTE COMPLEX OF POLYANILINE AND CARBOXYMETHYLCELLULOSE	338
PERMEABILITY PROPERTIES OF POLYELECTROLYTE COMPLEXES FROM CARBOXYMETHYLCELLULOSE AND POLY(2-VINYL-N-METHYLPYRIDINIUM IODIDE)	334
3-(O- CARBOXYPHENYL)-1-PHENYLTRIAZENE 1-OXIDE	
STUDIES ON THE COMPLEXES OF 3-(O-CARBOXYPHENYL)-1-PHENYLTRIAZENE 1-OXIDE:PART II - NICKEL(II) COMPLEX AND ITS REACTION PRODUCTS WITH SOME NEUTRAL N-DONORS	260
CARCINOGENESIS	
MECHANISM OF CHEMICAL CARCINOGENESIS	526
CARRIER MEDIATED TRANSPORT	
CARRIER MEDIATED TRANSPORT THROUGH LIQUID MEMBRANES - STUDIES ON TRANSPORT OF NICKEL IONS USING TETRADENTATE THIOIMINATO SCHIFF BASE LIGANDS AS CARRIERS	393
STUDIES ON THE SELECTIVE CARRIER-MEDIATED TRANSPORT OF PLUTONIUM(IV) IONS THROUGH TRIBUTYL PHOSPHATE/DODECANE LIQUID MEMBRANES	323
CASTRO ENRIQUE	
ABOUT THE PYRIDINOLYSIS OF 2,4-DINITROPHENYL ACETATE IN 50% V/V ACETONITRILE-WATER (LETTER TO EDITOR)	70
CATALYSTS	
A NEW CATALYST FOR THE PREPARATION OF OLEATE OF GLYCERIN	449
HYDROGEN SPILLOVER ON A PLATINUM/CARBON FUEL CELL CATALYST	957
INVESTIGATION OF CR(3+) SUBSTITUTED (GAMMA)-FE2O3 CATALYST IN ITS ACTIVE FORM	909
MOSSBAUER STUDIES ON TIN BEARING CATALYSTS USED FOR HYDROGENATION OF COAL (LETTER TO EDITOR)	482
OLEFIN EPOXIDATION USING IRON(III)SCHIFF BASE COMPLEXES AS CATALYST	785
SODIUM RUTHENATE CATALYSTS IN THE OXIDATION OF SUBSTITUTED BENZYL ALCOHOLS BY HEXACYANOFERRATE(III)	309
STRUCTURE SENSITIVE NITROGEN CHEMISORPTION ON SUPPORTED RUTHENIUM CATALYSTS	436
CATALYTIC HYDROGENATION	
HOMOGENEOUS CATALYTIC HYDROGENATION OF ORGANIC COMPOUNDS USING ORTHOMETALLATE SCHIFF BASE COMPLEXES OF PALLADIUM(II)	243
CATION EXCHANGE CHROMATOGRAPHIC SEPARATION	
CATION EXCHANGE CHROMATOGRAPHIC SEPARATION OF A NUMBER OF METAL IONS IN AMMONIUM IODIDE MEDIA	901
CATION EXCHANGER	
NEW CATION EXCHANGER OF POLY(N-SUBSTSITUTED PHENYLMALEIMIDE) TYPE	386
CATIONIC DYE	
STUDIES ON INTERACTION OF CATIONIC DYE WITH BACTERIAL ACIDIC POLYSACCHARIDE	77
CELLULOSE	
TRANSPORT OF WATER THROUGH CELLULOSE DERIVATIVES USED AS THE COVER OF OSMOTIC SYSTEMS FOR DRUG RELEASE	366
CELLULOSE ARYLPHOSPHINITES	
THERMAL AND SPECTRAL STUDIES ON CELLULOSE ARYLPHOSPHINITES IN AIR	817
CELLULOSIC POLYMERS	
STUDIES ON ULTRAFILTRATION MEMBRANE SYSTEMS BASED ON CELLULOSIC AND POLYSULFONE POLYMERS	376
CERAMIC MATERIALS	
DESIGN OF MOLECULAR SPECIES FOR SYNTHESIS OF ADVANCED CERAMIC MATERIALS	492
CERAMIC POWDER SUSPENSIONS	
SURFACE-MEDIATED AUTOXIDATION OF AQUEOUS SO2 IN CERAMIC POWDER SUSPENSIONS	683
CERAMICS	
DIELECTRIC CHARACTERIZATION OF BTO-DERIVED BARIUM TITANATE (BaTiO3) CERAMICS	870
CERIUM(IV)	
KINETICS OF OXIDATION OF BIS(2,2',6',2"-	

	PAGE
TERPYRIDINE)IRON(II) BY CERIUM(IV)	125
STUDY ON THE IMMOBILIZATION BEHAVIOUR OF BARIUM,CADMIUM, AND ANTIMONY OVER SN(IV) AND CE(IV) OXIDES	120
CHAKRABARTY D K SEE DAS J	742
CHAKRABORTY A K SEE MITRA A	77
CHAKRABORTY PIYUSH K SEE SAHA SAILESH C	260
CHAKRAVARTY AKHIL R SEE DAS BIRINCHI K	408
CHAKRAVARTY BISWANATH SEE BHATTACHARYA RUMA	187
CHAND SUDHA SEE ISHWAR DAS	612
CHANDRA P	
SELECTION OF BASIS SETS IN AB INITIO STUDIES OF MOLECULAR STRUCTURE	550
CHANDRASEKARAN S	
ORGANIC CHEMISTRY WITH BUCKMINSTERFULLERENE(C-60)	F36
CHANDRASEKHAR J SEE RATHNA A	F51
CHANSORIA K	
KINETICS OF OXIDATION OF THIOACETIC ACID BY METHYLENE BLUE IN METHANOL-WATER MEDIUM	728
CHARAK ANILA SEE SHARMA N K	658
CHATTARAJ P K	
A NEW SCALE INVARIANCE BEHAVIOUR IN FRACTAL SCATTERING	954
CHATTERJEE CHINMAY	
ACID HYDROLYSIS OF IMINODIACETATO TETRAAMMINE COBALT(III), [CO(NH3)(4)IDAH](CLO4)2 COMPLEX	898
CHATTERJEE D K	
STUDIES ON SOLUTE-SOLVENT INTERACTIONS IN AQUEOUS SOLUTION OF ISOMERIC MONO-HYDROXYBENZOATE SALTS	232
CHATTERJEE DEBABRATA SEE TAQUI KHAN M M	146, 152
CHATTOPADHYAY NITIN	
EXCITED STATE PROTON TRANSFER: AN OVERVIEW OF ENVIRONMENTAL PERTURBATIONS	512
CHATTTERJEE DEBABRATA SEE TAQUI KHAN M M	714
CHAUDHARI S K SEE GANGULY P	F42
CHAUDHARY S C	
A NEW METHOD OF SYNTHESIS OF ARSENIC TRITHIOPHENOXIDE	279
CHAUDHURI MIHIR K	
COMPLEX PEROXOVANADATES(V) CONTAINING CHELATED CYSTEINATE AS THE CO-LIGAND: SYNTHESIS AND SPECTROSCOPIC STUDIES	466
CHAUDHURY A K SEE MALEQUE ABDUL	764
CHAUDHURY S	
TRIMETHYLPLATINUM(IV) COMPLEXES WITH DIPHENYLTHIOPHOSPHINIC ACID	131
CHAUHAN ASHOK K S	
REACTIONS OF TRIARYLANTIMONY WITH SOME CARBOXYLIC ACIDS	475
CHELATING ION EXCHANGER	
SEPARATION AND RECOVERY OF VANADIUM FROM A CHELATING ION EXCHANGER CONTAINING N-BENZOYLPHENYL HYDROXYLAMINE AS A FUNCTIONAL GROUP	288
CHELATING RESIN	
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES	110
CHEMICAL CARCINOGENESIS	
MECHANISM OF CHEMICAL CARCINOGENESIS	526
CHEMICAL INSTABILITY	
CHEMICAL INSTABILITY AND PERIODIC PRECIPITATION OF CUCRO4 IN BATCH AND FLOW REACTORS	612
CHLOROFORM	
KINETIC STUDIES ON THE SOLVENT EXTRACTION OF IRON(III) FROM AQUEOUS SOLUTION WITH 1-PHENYL-3-METHYL-4-(P-NITROBENZOYL)PYRAZOL-5-ONE DISSOLVED IN CHLOROFORM: RATE OF FORWARD EXTRACTION	981
1-(M- CHLOROPHENYL)-3-PHENYL-1,2-EPOXYPROPAN-3-ONE	
VOLTAMMETRY OF 1-(M-CHLOROPHENYL)-3-PHENYL-1,2-EPOXYPROPAN-3-ONE	732
CHLORPROMAZINE BASE	
PLASTIC MEMBRANE POH-ELECTRODE BASED ON CHLORPROMAZINE BASE	881
CHOLESTEROL MEMBRANE	
STUDIES ON ELECTROCHEMICAL CHARACTERIZATIN OF REINFORCED CHOLESTEROL MEMBRANE	273
CHOWDHURY MIHIR SEE CHATTOPADHYAY NITIN	512
CHROMATOGRAPHIC SEPARATION	
CATION EXCHANGE CHROMATOGRAPHIC SEPARATION OF A NUMBER OF METAL IONS IN AMMONIUM IODIDE MEDIA	901
CHROMIC ACID	
INFLUENCE OF SODIUM LAURYL SULFATE MICELLES ON THE OXIDATION OF MALONIC ACID BY CHROMIC ACID	710
CHROMIUM	
A PHOTOELECTRON SPECTROSCOPIC STUDY OF THE INTERACTION OF OXYGEN,NITROGEN AND TRANSITION METALS WITH C-60 FILMS	F22
CHROMIUM(III)	
INVESTIGATION OF CR(3+) SUBSTITUTED (GAMMA)-FE2O3 CATALYST IN ITS ACTIVE FORM	909
CHUDASAMA UMA SEE PATEL PRAMOD	803
SEE SHIVANEKAR ANJALI	771
[CO(NH3)(4)IDAH](CLO4)2 COMPLEX	
ACID HYDROLYSIS OF IMINODIACETATO TETRAAMMINE COBALT(III), [CO(NH3)(4)IDAH](CLO4)2 COMPLEX	898
CO-LIGAND	
COMPLEX PEROXOVANADATES(V) CONTAINING CHELATED CYSTEINATE AS THE CO-LIGAND: SYNTHESIS AND SPECTROSCOPIC STUDIES	466
COAL	
MOSSBAUER STUDIES ON TIN BEARING CATALYSTS USED FOR HYDROGENATION OF COAL (LETTER TO EDITOR)	482
COBALT(II & III)	
HYDRAZONES DERIVED BY THE CONDENSATION OF 4-METHOXYBENZOYL HYDRAZIDE WITH SALICYLALDEHYDE, O-HYDROXYACETOPHENONE AND DIACETYLMONOXIME AS LIGANDS FOR COBALT (II & III)	937
SYNTHESIS AND CHARACTERIZATION OF COMPLEXES OF NICKEL(II), COPPER(II), COBALT(II) AND COBLAT(III) WITH MORPHOLINE N-THIOHYDRAZONES FORMED FROM SALICYLALDEHYDE AND 2-HYDROXYACETOPHENONE	34
COBALT(II)	
1,3-BIS(SALICYLIDINEAMINO)THIOUREA DIHYDRATE AS AN ANALYTICAL REAGENT FOR THE DIRECT SPECTROPHOTOMETRIC DETERMINATION OF CO(II) IN NATURAL SAMPLES	704
BROMATE ION OXIDATION OF COBALT(II) COMPLEX OF ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID IN AQUEOUS ACIDIC	

PAGE

MEDIUM: EXISTENCE OF AN AUTOCATALYTIC PROCESS 171
COMPLEXING BEHAVIOUR OF BI- AND TERDENTATE LIGANDS WITH SOME BIVALENT METAL ION 199
EXTRACTIVE AND SPECTROPHOTOMETRIC DETERMINATION OF CO(II) AT TRACE LEVELS USING ISONITROSO-4-METHYL-2-PENTANONE 984
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS 855
PERTRACTION OF COPPER(II) IN THE PRESENCE OF COBALT(II), NICKEL(II), MANGANESE(II) AND IRON(II) USING SUPPORTED LIQUID MEMBRANE 379
SEPARATION OF CO(II)-ZN(II), CO(II)-MN(II) AND ZN(II)-MN(II) SYSTEMS FROM THEIR BINARY SOLUTIONS THROUGH SUPPORTED LIQUID MEMBRANE CONTAINING ORGANOPHOSPHORUS ACID AS EXTRACTANT 389
SYNTHESIS AND CHARACTERIZATION OF CO(II) AND NI(II) COMPLEXES OF 2-SUBSTITUTED BENZIMIDAZOLES 463
SYNTHESIS, CHARACTERIZATION AND FUNGITOXICITY OF CU(II), NI(II), ZN(II), CO(II), FE(III) AND MN(III) CHELATES WITH (5-PHENYL-1,3,4-OXADIAZOL-2-YL)-N-BENZOYL DITHIOCARBAMATE 472

COBALT(III)

ACID HYDROLYSIS OF IMINODIACETATO TETRAAMMINE COBALT(III), [CO(NH3)(4)IDAH](CLO4)2 COMPLEX 898
BASE CATALYSED HYDROLYSIS OF BETA2-CIS-(CHLORO)(BENZIMIDAZOLE)(TRIEN)COBALT(III) CATION: A COMPARISON OF THE REACTIVITIES OF THE BENZIMIDAZOLE AND BENZIMIDAZOLATO SPECIES OF THE COMPLEX 747
KINETCIS AND MECHANISM OF COMPLEX FORMATION BETWEEN O-BONDED (GLYCINATO)PENTAAMMINECOBALT(III) AND (GLYCINATO)TETRAETHYLENE PENTAMINECOBALT(III) IONS WITH NICKEL(II) IN AQUEOUS MEDIUM 678
KINETICS AND MECHANISM OF ACID AND BASE HYDROLYSIS OF CIS-(BIOXALATO) (IMIDAZOLE)BIS(ETHYLENEDIAMINE)COBALT(III) ION:A STUDY OF THE ROLE OF THE COORDINATED IMIDAZOLE AND ITS ANION 832
MEDIUM EFFECTS ON THE ELECTRON-TRANSFER PROCESSES: REDUCTION OF AQUAPENTAAMMINECOBALT(III) BY HEXACYANOFERRATE(II) IN ETHYLENEGLYCOL-WATER, ETHYLENE CA BONATE-WATER AND UREA-WATER MEDIA 824
REACTION PATTERN OF AMINOACID CHELATES OF COBALT(III) IN ACIDIC AQUEOUS SOLUTION 187
REACTIONS IN MICELLAR SOLUTIONS: PART 13(1) - KINETICS AND MECHANISM OF THE REVERSIBLE COMPLEXATION OF IRON(III) BY (ALFA BETA S)(TETRAETHYLENEPENTAMINE) (SALICYLATO)COBALT(III) AND CIS(AMMINE)BIS(ETHYLENEDIAMINE)(SALICYLATO)COBALT(III) IONS IN AQUEOUS ANIONIC MICELLAR MEDIUM 412
SYNTHESIS AND CHARACTERISATION OF HALOGENOCOBALT(III) COMPLEXES OF 3,8-DIMETHYL-5,6-BENZO-4,7-DIAZADECA-3,7-DIENE-2,9-DIONE DIOXIME WITH SUBSTITUTED PYRIDINES 800

COLUMN CONTACTOR

REMOVAL OF PHENOL FROM REFINERY WASTE WATERS USING LIQUID SURFACTANT MEMBRANES IN A CONTINUOUS COLUMN CONTACTOR 361

COLUMN PRECONCENTRATION

COLUMN PRECONCENTRATION OF PALLADIUM USING PROTOCATECHUIC ACID AND TETRADECYLDIMETHYLBENZYLAMMONIUM-IODIDE-NAPHTHALENE AS AN ADSORBENT 67

COMPLEX FORMATION

KINETCIS AND MECHANISM OF COMPLEX FORMATION BETWEEN O-BONDED (GLYCINATO)PENTAAMMINECOBALT(III) AND (GLYCINATO)TETRAETHYLENE PENTAMINECOBALT(III) IONS WITH NICKEL(II) IN AQUEOUS MEDIUM 678

COMPLEXATION REACTION

COMPLEXATION REACTION ON THE IMMOBILIZED MATRICES: COMPLEXES OF IRON(III) HEXACYANOFERRATE(II) AND SOME N,O AND N,S CONTAINING LIGANDS FORMED ON A THIN GELATIN LAYER 54

CONDUCTANCE BEHAVIOUR

CONDUCTANCE BEHAVIOUR OF COPPER(II) PERCHLORATE IN WATER-DMSO AND WATER-PYRIDINE MIXTURES 782

CONDUCTING POLYMERS

TAILORING ELECTRICALLY CONDUCTING POLYMERS: AN OVERVIEW 291

CONDUCTIVITY

CONDUCTIVITY, VISCOSITY AND ULTRASONIC STUDIES OF RUBIDIUM CAPRYLATE 452

CONDUCTIVITY MEASUREMENTS

STUDIES OF INORGANIC PRECIPITATE MEMBRANE: EVALUATION OF MEMBRANE SELECTIVITY FROM BI-IONIC POTENTIAL AND CONDUCTIVITY MEASUREMENTS 439

CONTRASTING ISOMER STABILITIES

CONTRASTING ISOMER STABILITIES OF SILABORANES AND CARBORANES: SI2B3H5 AND C2B3H5 ISOMERS 645

COPOLYMERIZATION

ALTERNATING COPOLYMERIZATION OF ZINC ACRYLATE WITH STYRENE INITIATED BY AS2S3-STYRENE COMPLEX 778

COPOLYMERS

MICROSTRUCTURE AND GLASS TRANSITION TEMPERATURE DETERMINATION OF STYRENE-METHYL ACRYLATE COPOLYMERS BY C-13 NMR SPECTROSCOPY 903
THERMAL PROPERTIES OF ABA AND BAB TRIBLOCK COPOLYMERS 219

COPPER

A PHOTOELECTRON SPECTROSCOPIC STUDY OF THE INTERACTION OF OXYGEN,NITROGEN AND TRANSITION METALS WITH C-60 FILMS F22
HETEROBINUCLEAR COMPLEX FORMATION BY IMINODIACETIC ACID AND DL-2,3-DIAMINOPROPIONIC ACID WITH SOME TRANSITION METAL IONS - PART I 760

COPPER(II)

COMPLEXATION OF CROSSLINKED POLYACRYLAMIDE-SUPPORTED AMINOLIGANDS WITH CU(II): EFFECT OF CROSSLINKING ON COMPLEXATION KINETICS 673
COMPLEXES OF CHROMIUM(III), COBALT(II), NICKEL(II), COPPER(II) & MOLYBDENUM(VI) WITH INDANE 1,3-DIONE-2-ISONICOTINOYLHYDRAZONE 58
COMPLEXING BEHAVIOUR OF BI- AND TERDENTATE

INDEX

LIGANDS WITH SOME BIVALENT METAL ION 199
CONDUCTANCE BEHAVIOUR OF COPPER(II) PERCHLORATE IN WATER-DMSO AND WATER-PYRIDINE MIXTURES 782
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS 855
MIXED LIGAND COMPLEX FORMATION OF CU2+ ION WITH 6-AMINOPENICILLANIC ACID IN THE PRESENCE OF BIPYRIDINE, GLYCINE AND ADENINE 478
PERTRACTION OF COPPER(II) IN THE PRESENCE OF COBALT(II), NICKEL(II), MANGANESE(II) AND IRON(II) USING SUPPORTED LIQUID MEMBRANE 379
STUDIES ON BIOLOGICALLY RELEVANT TERNARY METAL COMPLEXES: PART VI - STABILITY OF TERNARY CO(II), NI(II),CU(II) AND ZN(II) COMPLEXES INVOLVING AMINOPOLYCARBOXYLIC ACIDS AND AMINO ACIDS 256
STUDIES ON COPPER(II) AND ZINC(II) MIXED LIGAND COMPLEXES INVOLVING SOME POTENTIALLY TRIDENTATE LIGANDS 865
STUDIES ON THE COORDINATION OF CU(II) WITH O-HYDROXYACETOPHENONEPHENYLHYDRAZONES 251
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES 110
SYNTHESIS AND CHARACTERIZAION OF NI(II), CU(II) AND ZN(II) COMPLEXES WITH A TETRADENTATE THIOIMINATO SCHIFF BASE LIGAND 195
SYNTHESIS AND CHARACTERIZATION OF COMPLEXES OF NICKEL(II), COPPER(II), COBALT(II) AND COBLAT(III) WITH MORPHOLINE N-THIOHYDRAZONES FORMED FROM SALICYLALDEHYDE AND 2-HYDROXYACETOPHENONE 34
SYNTHESIS, CHARACTERISATION AND REACTIVITY OF CU(II) AMINE COMPLEXES SUPPORTED ON AN INORGANIC ION EXCHANGER, ZIRCONIUM MOLYBDATE 771
SYNTHESIS, CHARACTERIZATION AND FUNGITOXICITY OF CU(II), NI(II), ZN(II), CO(II), FE(III) AND MN(III) CHELATES WITH (5-PHENYL-1,3,4-OXADIAZOL-2-YL)-N-BENZOYL DITHIOCARBAMATE 472
X-RAY K-ABSORPTION SPECTRAL STUDIES OF SOME COPPER(II) MIXED LIGAND COMPLEXES WITH GLYCINE AS PRIMARY LIGAND 929
CROSSLINKED POLYACRYLAMIDE-SUPPORTED AMINOLIGANDS
COMPLEXATION OF CROSSLINKED POLYACRYLAMIDE-SUPPORTED AMINOLIGANDS WITH CU(II): EFFECT OF CROSSLINKING ON COMPLEXATION KINETICS 673
CRYSTAL STRUCTURE
CRYSTAL AND MOLECULAR STRUCTURE OF AQUOETHYLENEDIAMINE-TETRAACETATORUTHENIUM(III) AND ITS EXTRAORDINARY LABILITY TOWARDS SUBSTITUTION 303
EFFECT OF SUBSTITUENTS ON THE CRYSTAL STRUCTURE OF POLY(ANILINE) 43
CUPRIC CHLORIDE
SOLVATION BEHAVIOUR OF CUPRIC CHLORIDE IN NON-AQUEOUS SOLVENTS 227
CYANOGEN HALIDES
PHYSICOCHEMICAL INVESTIGATION OF THE REACTIONS OF SOME ORGANOPHOSPHINE DERIVATIVES WITH CYANOGEN HALIDES 951
CYCLIC CONJUGATION
CYCLIC CONJUGATION IN BENZO-ANNELATED POLYACENES 647
CYCLIC VOLTAMMETRY
KINETICS OF HYDROGEN EVOLUTION REACTION ON BRIGHT PLATINUM ELECTRODE IN AQUEOUS DIMETHYLFORMAMIDE SOLUTIONS BY CYCLIC VOLTAMMETRY 86
CYCLOHEXANE
VISCOMETRIC BEHAVIOUR OF BINARY SYSTEMS OF METHYL ETHYL KETONE WITH METHYLENE CHLORIDE, 1,2-DICHLOROETHANE, TRICHLOROETHENE, TETRACHLOROETHENE AND CYCLOHEXANE 626
CYSTEINATE
COMPLEX PEROXOVANADATES(V) CONTAINING CHELATED CYSTEINATE AS THE CO-LIGAND: SYNTHESIS AND SPECTROSCOPIC STUDIES 466
CYTOCHROME P450 OXIDASE
OXYGEN ATOM TRANSFER REACTIONS BY RU(V) OXO COMPLEXES: MODELS BY CYTOCHROME P450 OXIDASE 146
CYTOTOXICITY
SYNTHESIS, CHARACTERIZATION AND CYTOTOXICITY OF (3,4-DIAMINOBENZOIC ACID)-HALOPLATINUM(II)/PALLADIUM(II) 102
D'SOUZA F SEE RAO C N R F5
DAS A K SEE SRIVASTAVA R C 533
DAS BIRINCHI K
REACTIVITY OF PPH3 TOWARD RU2CL(O2CME)4:SYNTHESIS AND X-RAY CRYSTAL STRUCTURE OF [RU(O2CME)(MECN)2-(PPH3)2](CLO4) 408
DAS J
SUBSTITUTED ALPO4-11 MOLECULAR SIEVES-SAPO-11 AND COAPO-11:SYNTHESIS, ACIDITY AND ALKYLATION OF TOLUENE WITH METHANOL 742
SEE KONAR B 735
DAS JYOTIRMOY SEE POBI MAYA 288
DAS NIGAMANANDA
KINETCIS AND MECHANISM OF COMPLEX FORMATION BETWEEN O-BONDED (GLYCINATO)PENTAAMMINECOBALT(III) AND (GLYCINATO)TETRAETHYLENE PENTAMINECOBALT(III) IONS WITH NICKEL(II) IN AQUEOUS MEDIUM 678
DAS PUSPENDU KUMAR SEE MOHANALINGAM K 518
DASH ANADI C
BASE CATALYSED HYDROLYSIS OF BETA2-CIS-(CHLORO)(BENZIMIDAZOLE)(TRIEN)COBALT(III) CATION: A COMPARISON OF THE REACTIVITIES OF THE BENZIMIDAZOLE AND BENZIMIDAZOLATO SPECIES OF THE COMPLEX 747
KINETICS AND MECHANISM OF ACID AND BASE HYDROLYSIS OF CIS-(BIOXALATO)(IMIDAZOLE)BIS(ETHYLENEDIAMINE)COBALT(III) ION:A STUDY OF THE ROLE OF THE COORDINATED IMIDAZOLE AND ITS ANION 832
MEDIUM EFFECTS ON THE ELECTRON-TRANSFER PROCESSES: REDUCTION OF AQUAPENTAAMMINECOBALT(III) BY HEXACYANOFERRATE(II) IN ETHYLENEGLYCOL-WATER, ETHYLENE CA BONATE-WATER AND UREA-

PAGE

WATER MEDIA 824
MICELLAR EFFECTS ON THE REACTIONS OF COMPLEX IONS IN SOLUTION: PART 12 - KINETICS OF REVERSIBLE COMPLEXATION OF OXALATOPENTAAMMINECOBALT(III) WITH NICKEL(II) AND IRON(III) IN THE PRESENCE OF ANIONIC MICELLES OF SODIUM DODECYL SULPHATE IN AQUEOUS MEDIUM 166
REACTIONS IN MICELLAR SOLUTIONS: PART 13(1) - KINETICS AND MECHANISM OF THE REVERSIBLE COMPLEXATION OF IRON(III) BY (ALFA BETA S)(TETRAETHYLENEPENTAMINE)(SALICYLATO)COBALT(III) AND CIS(AMMINE)BIS(ETHYLENEDIAMINE)(SALICYLATO)COBALT(III) IONS IN AQUEOUS ANIONIC MICELLAR MEDIUM 412
SEE DAS NIGAMANANDA 678
DASH NEELAMADHAB SEE DASH ANADI C 824
DATE S K SEE BAGUL A G 661
SEE POTDAR H S 870
DATTA JAYATI SEE RAY SUBRATA K 86
DATTA NIVEDITA
STUDIES ON CONCENTRATION POLARISATION IN A MEMBRANE MODULE 342
DAYALAN A
SYNTHESIS AND CHARACTERISATION OF HALOGENOCOBALT(III) COMPLEXES OF 3,8-DIMETHYL-5,6-BENZO-4,7-DIAZADECA-3,7-DIENE-2,9-DIONE DIOXIME WITH SUBSTITUTED PYRIDINES 800
DE G S SEE MAHANTI BIBEKANANDA 688
DEB B M
NONLINEAR DYNAMICS IN PROTON NOBLE GAS ATOM COLLISIONS 483
DECOMPOSITION
GAMMA RAY INDUCED DECOMPOSITION OF LANTHANIDE DOUBLE NITRATES WITH SOME BIVALENT CATIONS 878
DEFORMABLE MEDIA
LOCALIZATION OF EXCESS ELECTRONS IN DEFORMABLE MEDIA 539
DEPROTONATION CONSTANT
OXIDATIONS WITH PERMANGANATE IN A STRONG ALKALINE MEDIUM: CALCULATION OF DEPROTONATION CONSTANT 417
DESHPANDE C E SEE BAGUL A G 661
DESHPANDE S B SEE POTDAR H S 870
DEY K C SEE ROY S K 64
DEY KAMALENDU
HYDRAZONES DERIVED BY THE CONDENSATION OF 4-METHOXYBENZOYL HYDRAZIDE WITH SALICYLALDEHYDE, O-HYDROXYACETOPHENONE AND DIACETYLMONOXIME AS LIGANDS FOR COBALT (II & III) 937
SYNTHESIS AND CHARACTERIZATION OF COMPLEXES OF NICKEL(II), COPPER(II), COBALT(II) AND COBLAT(III) WITH MORPHOLINE N-THIOHYDRAZONES FORMED FROM SALICYLALDEHYDE AND 2-HYDROXYACETOPHENONE 34
DHAMODARAN R
EXTRACTION OF FULLERENES IN ORGANIC SOLVENTS AND THE DEVELOPMENT OF SUPERIOR ISOLATION PROCEDURES F32
DHAR RAJ K
KINETICS OF OXIDATION OF SOME MONOSACCHARIDES BY PYRIDINIUM CHLOROCHROMATE (PCC) 97
DIACETYLMONOXIME
HYDRAZONES DERIVED BY THE CONDENSATION OF 4-METHOXYBENZOYL HYDRAZIDE WITH SALICYLALDEHYDE, O-HYDROXYACETOPHENONE AND DIACETYLMONOXIME AS LIGANDS FOR COBALT (II & III) 937
(3,4- DIAMINOBENZOIC ACID)-HALOPLATINUM(II)
SYNTHESIS, CHARACTERIZATION AND CYTOTOXICITY OF (3,4-DIAMINOBENZOIC ACID)-HALOPLATINUM(II)/PALLADIUM(II) 102
1,6- DIAMINOHEXANE
METAL DIRECTED CONDENSATION OF ETHYLACETOACETATE WITH 1,6-DIAMINOHEXANE 642
DIAMINOPROPIONIC ACID
HETEROBINUCLEAR COMPLEX FORMATION BY IMINODIACETIC ACID AND DL-2,3-DIAMINOPROPIONIC ACID WITH SOME TRANSITION METAL IONS - PART I 760
DIAQUOTETRAKIS(2,2'-BIPYRIDINE)-MU-OXODIRUTHENIUM(III)
THE STOICHIOMETRY AND KINETICS OF OXIDATION OF 1,4-BENZENEDIOL BY DIAQUOTETRAKIS(2,2'-BIPYRIDINE)-MU-OXODIRUTHENIUM(III) CATION IN PERCHLORATE MEDIUM 943
DICAPRYLATE
PHYSICOCHEMICAL STUDIES ON ZINC DICAPRYLATE 756
DICHLOROACETIC ACID
PHOTOPOLYMERIZATION OF METHYL METHACRYLATE USING DICHLOROACETIC ACID AND DIMETHYLANILINE COMBINATION AS PHOTOINITIATOR 71
1,2- DICHLOROETHANE
VISCOMETRIC BEHAVIOUR OF BINARY SYSTEMS OF METHYL ETHYL KETONE WITH METHYLENE CHLORIDE, 1,2-DICHLOROETHANE, TRICHLOROETHENE, TETRACHLOROETHENE AND CYCLOHEXANE 626
DICYCLOHEXANO-18-CROWN-6
MACROCYCLE-FACILITATED TRANSPORT OF URANYL IONS ACROSS SUPPORTED LIQUID MEMBRANES USING DICYCLOHEXANO-18-CROWN-6 AS MOBILE CARRIER 373
DIELECTRIC CHARACTERIZATION
DIELECTRIC CHARACTERIZATION OF BTO-DERIVED BARIUM TITANATE (BaTiO3) CERAMICS 870
5,8- DIETHYL-7-HYDROXYDODECAN-6-ONE OXIME
SOLVENT EXTRACTION EQUILIBRIA OF PALLADIUM(II) COMPLEX WITH 5,8-DIETHYL-7-HYDROXYDODECAN-6-ONE OXIME IN SOME ORGANIC DILUENTS 116
DIGLYCINE
KINETICS OF OXIDATION OF DIGLYCINE BY BROMAMINE-B IN PERCHLORIC ACID MEDIUM 752
1,3- DIHYDRO-1,3-DIOXO-ALFA-(SUBSTITUTED)-2H-ISOINDOLE-2-ACETIC ACIDS
SEVEN COORDINATED ORGANOTIN(IV) COMPLEXES OF 1,3-DIHYDRO-1,3-DIOXO-ALFA-(SUBSTITUTED)-2H-ISOINDOLE-2-ACETIC ACIDS 469
5,6- DIHYDROXYTRYPTAMINE
ELECTROCHEMICAL OXIDATION OF 5,6-DIHYDROXYTRYPTAMINE AT SOLID ELECTRODES 693
BETA- DIKETOESTER
STUDIES ON BETA-DIKETONATE AND BETA-DIKETOESTER DERIVATIVES OF TRI-AND TETRA-ORGANOANTIMONY(V) 797
BETA- DIKETONATE
STUDIES ON BETA-DIKETONATE AND BETA-DIKETOESTER DERIVATIVES OF TRI-AND TETRA-ORGANOANTIMONY(V) 797
BETA- DIKETONES

INDEX

PAGE

MONOPYRIDINE IODINE(I) CHLORIDE IN ETHANOL AS A NEW IODINATING REAGENT FOR METAL BETA-DIKETONES AND KETONEIMINES 702
3,8- DIMETHYL-5,6-BENZO-4,7-DIAZADECA-3,7-DIENE-2,9-DIONE DIOXIME
SYNTHESIS AND CHARACTERISATION OF HALOGENOCOBALT(III) COMPLEXES OF 3,8-DIMETHYL-5,6-BENZO-4,7-DIAZADECA-3,7-DIENE-2,9-DIONE DIOXIME WITH SUBSTITUTED PYRIDINES 800
DIMETHYLANILINE
PHOTOPOLYMERIZATION OF METHYL METHACRYLATE USING DICHLOROACETIC ACID AND DIMETHYLANILINE COMBINATION AS PHOTOINITIATOR 71
DIMETHYLFORMAMIDE
KINETICS OF HYDROGEN EVOLUTION REACTION ON BRIGHT PLATINUM ELECTRODE IN AQUEOUS DIMETHYLFORMAMIDE SOLUTIONS BY CYCLIC VOLTAMMETRY 86
DIMETHYLGLYOXIDE
DIFFERENT BINDING MODES OF DIMETHYLGLYOXIME (DMG-H2) TOWARDS RU(II) ION: SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF [RU(II)CL2(DMG-H2)(DMSO)2] AND SYNTHESIS OF [RU(II)CL(DMG-H2)2(DMSO)]CL AND [RU(II)(DMG-H)2(DMSO)2] 17
DIMETHYLSULPHOXIDE
CONDUCTANCE BEHAVIOUR OF COPPER(II) PERCHLORATE IN WATER-DMSO AND WATER-PYRIDINE MIXTURES 782
DINITROPHENOL
ION-SELECTIVE ELECTRODE BASED ON DINITROPHENOL-ALANINE CONJUGATE 639
2,4- DINITROPHENYL ACETATE
ABOUT THE PYRIDINOLYSIS OF 2,4-DINITROPHENYL ACETATE IN 50% V/V ACETONITRILE-WATER (LETTER TO EDITOR) 70
1,3- DIONE-2-ISONICOTINOLHYDRAZONE
COMPLEXES OF CHROMIUM(III), COBALT(II), NICKEL(II), COPPER(II) & MOLYBDENUM(VI) WITH INDANE 1,3-DIONE-2-ISONICOTINOYLHYDRAZONE 58
DIORGANOTIN(IV)
SYNTHESIS, CHARACTERIZATION AND REACTIONS OF DIORGANOTIN(IV) COMPLEXES WITH SOME N2S2 DONOR LIGANDS DERIVED FROM 2-AMINOTHIOPHENOL 205
DIPHENYLTHIOPHOSPHINIC ACID
TRIMETHYLPLATINUM(IV) COMPLEXES WITH DIPHENYLTHIOPHOSPHINIC ACID 131
DITHIOOXAMIDE
SYNTHESIS AND CHARACTERIZATION OF OXOMOLYBDENUM(V) COMPLEX WITH DITHIOOXAMIDE 806
DITHIZONE
KINETICS OF RELEASE OF DITHIZONE FROM MERCURY(II) DITHIZONATE BY TRIPHENYLPHOSPHINE 726
DMF MEDIA
STUDIES ON ELECTRODE KINETICS OF SCHIFF BASES IN AQUEOUS AND DMF MEDIA 947
DNA
BINDING OF SURFACTANTS ONTO DNA AND SOLUBILIZATION OF DNA/SURFACTANT COMPLEX IN MICELLES 432
DODECANE
STUDIES ON THE SELECTIVE CARRIER-MEDIATED TRANSPORT OF PLUTONIUM(IV) IONS THROUGH TRIBUTYL PHOSPHATE/DODECANE LIQUID MEMBRANES 323
DOMENECH R GARCIA
KINETICS OF THE REACTION OF HYDRAZINE WITH 2-HYDROXY-1-NAPHTHALDEHYDE 423
DOPED C-60 FULLERENE
PHYSICS OF UNDOPED AND DOPED C-60 FULLERENES F64
DOPED FULLERENES
STUDIES ON STRUCTURAL AND ELECTRONIC PROPERTIES OF UNDOPED AND DOPED FULLERENES C-60 AND C-70 F92
DOPED SOLID C-60
ON THE ORIGIN OF SUPERCONDUCTIVITY AND ANOMALOUS NORMAL STATE PROPERTIES OF DOPED SOLID C-60 F104
DRUG RELEASE
TRANSPORT OF WATER THROUGH CELLULOSE DERIVATIVES USED AS THE COVER OF OSMOTIC SYSTEMS FOR DRUG RELEASE 366
DRUGS
LIQUID MEMBRANE PHENOMENA IN THE MULTIPLE ACTIONS OF PSYCHOTROPIC DRUGS 533
DUBEY R K
SYNTHESIS AND CHARACTERIZTION OF NOVEL HOMO- AND HETERO-LEPTIC ALKOXOMETALLATES OF MANGANESE(II) 156
DUBEY S N
COMPLEXING BEHAVIOUR OF BI- AND TERDENTATE LIGANDS WITH SOME BIVALENT METAL ION 199
DUTTA N C SEE BHATTACHARYYA D K 120
DUTTA RINA SEE CHATTOPADHYAY NITIN 512
DYE
SOME ASPECTS OF PHOTOPHYSICS OF DYES AND SELF-AGGREGATION PHENOMENON IN SOLUTION 500
STUDIES ON INTERACTION OF CATIONIC DYE WITH BACTERIAL ACIDIC POLYSACCHARIDE 77
DYSPROSIUM(III)
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS 855
EBEID FIKRY M
CONVERSION OF METHANOL OVER METAL SALTS OF 12-MOLYBDOPHOSPHORIC ACID 921
EKUBO ALLEN T SEE AYOKO G ADEFIKAYO 975
ELECTRIC POWER
ELECTRIC POWER PRODUCED FROM TWO SOLUTIONS OF UNEQUAL SALINITY BY REVERSE ELECTRODIALYSIS 348
ELECTRIC TRANSPORT
REACTIVITY AND ELECTRIC TRANSPORT OF NONSTOICHIOMETRIC RARE EARTH OXIDES 601
ELECTRICALLY CONDUCTING POLYMERS
TAILORING ELECTRICALLY CONDUCTING POLYMERS: AN OVERVIEW 291
ELECTROCHEMICAL CHARACTERIZATION
STUDIES ON ELECTROCHEMICAL CHARACTERIZATIN OF REINFORCED CHOLESTEROL MEMBRANE 273
ELECTROCHEMICAL OXIDATION
ELECTROCHEMICAL OXIDATION OF 5,6-DIHYDROXYTRYPTAMINE AT SOLID ELECTRODES 693
ELECTROCHEMICAL OXIDATION OF 2-AMINOBENZIMIDAZOLE AT PYROLYTIC GRAPHITE ELECTRODE 794
INVESTIGATIONS ON ELECTROCHEMICAL OXIDATION OF 2-MERCAPTOBENZOTHIAZOLE 237
ELECTROCHEMICAL STUDIES
ELECTROCHEMICAL STUDIES AT

	PAGE
ULTRAMICROELECTRODES	633
ELECTROCHEMICAL STUDIES ON ZIRCONIUM PHOSPHATE-KYNAR COMPOSITE ION EXCHANGE MEMBRANE SYSTEM	874
ELECTRODE	
A URANYL SELECTIVE ELECTRODE BASED ON NEUTRAL BIDENTATE ORGANOPHOSPHORUS COMPOUNDS	12
ELECTROCHEMICAL OXIDATION OF 5,6-DIHYDROXYTRYPTAMINE AT SOLID ELECTRODES	693
ELECTROCHEMICAL OXIDATION OF 2-AMINOBENZIMIDAZOLE AT PYROLYTIC GRAPHITE ELECTRODE	794
ION-SELECTIVE ELECTRODE BASED ON DINITROPHENOL-ALANINE CONJUGATE	639
KINETICS OF HYDROGEN EVOLUTION REACTION ON BRIGHT PLATINUM ELECTRODE IN AQUEOUS DIMETHYLFORMAMIDE SOLUTIONS BY CYCLIC VOLTAMMETRY	86
PLASTIC MEMBRANE POH-ELECTRODE BASED ON CHLORPROMAZINE BASE	881
ELECTRODE KINETICS	
STUDIES ON ELECTRODE KINETICS OF SCHIFF BASES IN AQUEOUS AND DMF MEDIA	947
ELECTRODIALYSIS	
ELECTRIC POWER PRODUCED FROM TWO SOLUTIONS OF UNEQUAL SALINITY BY REVERSE ELECTRODIALYSIS	348
PERMSELECTIVITY OF ACETATE ION TO NITRATE ION IN ELECTRODIALYSIS OF AQUEOUS SOLUTIONS	369
ELECTROLYTES	
A STUDY ON ION-SOLVENT INTERACTIONS OF SOME TETRA-ALKLYL AND MULTICHARGED ELECTROLYTES IN WATER AT DIFFERENT TEMPERATURES	716
ELECTROLYTICALLY GENERATED MANGANESE(III)	
POTENTIOMETRIC STUDIES ON ELECTROLYTICALLY GENERATED MANAGANES(III) ACETATE IN AQUEOUS ACETIC ACID: OXIDATION OF THIOSEMICARBAZIDE, ITS METAL COMPLEXES AND THIOSEMICARBAZONES	49
ELECTROMEMBRANE	
DIRECT PRODUCTION OF PURE CONCENTRATED TARTARIC ACID FROM ITS SALTS BY ELECTROMEMBRANE PROCESSES	355
ELECTROMEMBRANE FROM POLYELECTROLYTE COMPLEX OF POLYANILINE AND CARBOXYMETHYLCELLULOSE	338
ELECTRON DONORS	
PREPARATION, CHARACTERIZATION AND PROPERTIES OF C-60 AND C-70: SPECTROSCOPY, STRUCTURE, ANION INTERACTION WITH ELECTRON DONORS AND SUPERCONDUCTIVITY	F5
ELECTRON-TRANSFER PROCESS	
MEDIUM EFFECTS ON THE ELECTRON-TRANSFER PROCESSES: REDUCTION OF AQUAPENTAAMMINECOBALT(III) BY HEXACYANOFERRATE(II) IN ETHYLENEGLYCOL-WATER, ETHYLENE CA BONATE-WATER AND UREA-WATER MEDIA	824
ELECTRONIC PROPERTIES	
STUDIES ON STRUCTURAL AND ELECTRONIC PROPERTIES OF UNDOPED AND DOPED FULLERENES C-60 AND C-70	F92
ELECTRONIC STRUCTURE	
TOWARDS A CORRELATED ELECTRONIC STRUCTURE OF FULLERENES	F56
ELECTRONS	
LOCALIZATION OF EXCESS ELECTRONS IN DEFORMABLE MEDIA	539
ELECTROTHERMAL ATOMIC ABSORPTION ANALYSIS	
SOLVENT EXTRACTION – ELECTROTHERMAL ATOMIC ABSORPTION ANALYSIS OF PLATINUM IN HETEROGENOUS SUPPORTED CATLYSTS	39
ELWERFALLI JAMAL T SEE SHOUKRY ADEL F	881
ENVIRONMENTAL PERTURBATION	
EXCITED STATE PROTON TRANSFER: AN OVERVIEW OF ENVIRONMENTAL PERTURBATIONS	512
EPOXIDATION	
OLEFIN EPOXIDATION USING IRON(III)SCHIFF BASE COMPLEXES AS CATALYST	785
EPR	
SYNTHESIS AND EPR OF OLIGOMERIC MANGANESE(II) COMPLEXES OF A TRIPODAL LIGAND TRIS(2-BENZIMIDAZOLYL METHYLAMINE AND ITS N-ETHYL DERIVATIVES	666
ESTERIFICATION REACTIONS	
USE OF ZIRCONIUM TUNGSTATE IN ACID CATALYSIS: SOME ESTERIFICATION REACTIONS	803
ETHANOL	
MONOPYRIDINE IODINE(I) CHLORIDE IN ETHANOL AS A NEW IODINATING REAGENT FOR METAL BETA-DIKETONES AND KETONEIMINES	702
N-[4- ETHOXYBENZYLIDENE]-4'-N-BUTYLANILINES	
EFFECT OF 3-FLUORO-4-CYANO SUBSTITUTED BENZOATES IN THE FORMATION OF INDUCED SMECTIC PHASES WITH N-[4-ETHOXYBENZYLIDENE]-4'-N-BUTYLANILINE	658
ETHYLACETOACETATE	
METAL DIRECTED CONDENSATION OF ETHYLACETOACETATE WITH 1,6-DIAMINOHEXANE	642
ETHYLENE CARBONATE	
MEDIUM EFFECTS ON THE ELECTRON-TRANSFER PROCESSES: REDUCTION OF AQUAPENTAAMMINECOBALT(III) BY HEXACYANOFERRATE(II) IN ETHYLENEGLYCOL-WATER, ETHYLENE CA BONATE-WATER AND UREA-WATER MEDIA	824
ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID	
BROMATE ION OXIDATION OF COBALT(II) COMPLEX OF ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID IN AQUEOUS ACIDIC MEDIUM: EXISTENCE OF AN AUTOCATALYTIC PROCESS	171
ETHYLENEDIAMINETETRACETATO RUTHENATE(III)	
KINETICS AND MECHANISM OF THE SUBSTITUTION REACTION OF ETHYLENEDIAMINETETRAACETATO RUTHENATE(III) WITH CYANIDE IN AQUEOUS SOLUTION	714
ETHYLENEGLYCOL	
MEDIUM EFFECTS ON THE ELECTRON-TRANSFER PROCESSES: REDUCTION OF AQUAPENTAAMMINECOBALT(III) BY HEXACYANOFERRATE(II) IN ETHYLENEGLYCOL-WATER, ETHYLENE CA BONATE-WATER AND UREA-WATER MEDIA	824
EXCESS ELECTRONS	
LOCALIZATION OF EXCESS ELECTRONS IN DEFORMABLE MEDIA	539
EXCESS GIBBS FREE ENERGY OF MIXING	
THERMODYNAMICS OF BINARY MIXTURES OF NON-ELECTROLYTES: MOLAR EXCESS GIBBS FREE ENERGY OF MIXING	398
EXCESS MOLAR VOLUMES	
EXCESS MOLAR VOLUMES OF BINARY MIXTURES CONTAINING NITROTOULENE AT 308.15 K	721
EXCHANGER	

INDEX

	PAGE
NEW CATION EXCHANGER OF POLY(N-SUBSTSITUTED PHENYLMALEIMIDE) TYPE	386
THE EFFICACY OF ANTIMONY(III) MOLYBDOTUNGSTATE AS AN EXCHANGER FOR THE SEPARATION OF LEAD	136
EXCITED STATE PROTON TRANSFER	
EXCITED STATE PROTON TRANSFER: AN OVERVIEW OF ENVIRONMENTAL PERTURBATIONS	512
EXTRACTANT	
SEPARATION OF CO(II)-ZN(II), CO(II)-MN(II) AND ZN(II)-MN(II) SYSTEMS FROM THEIR BINARY SOLUTIONS THROUGH SUPPORTED LIQUID MEMBRANE CONTAINING ORGANOPHOSPHORUS ACID AS EXTRACTANT	389
EXTRACTION	
EXTRACTION OF FULLERENES IN ORGANIC SOLVENTS AND THE DEVELOPMENT OF SUPERIOR ISOLATION PROCEDURES	F32
FACILE CONVERSION	
SIGMA-BONDED ORGANOMETALLICS OF IRON AND THEIR FACILE CONVERSION INTO PI COMPLEXES	699
FAHMI N SEE SAXENA CHITRA	963
FeC-60	
INVESTIGATIONS OF IRON ADDUCTS OF C-60: A NOVEL FeC-60 IN THE SOLID STATE WITH FE INSIDE THE C-60 CAGE	F17
FERRITE	
CHEMICAL PROCESSING OF HEXAGONAL SR-FERRITE: PART II - EFFECT OF MODE OF WASHING AND FILTRATON ON THE MAGNETIC PARAMETERS	661
FIRE RETARDANCY	
PLASTICIZATION PHENOMENA AND FIRE RETARDANCY IN PVC	590
FIRST ORDER HYPERPOLARIZABILITIES	
FIRST ORDER HYPERPOLARIZABILITIES OF PUSH-PULL OLEFINS	518
FLOW REACTOR	
CHEMICAL INSTABILITY AND PERIODIC PRECIPITATION OF CUCRO4 IN BATCH AND FLOW REACTORS	612
FLUORIDATION	
FLUORIDATION OF OH-APATITE ON INTERACTION WITH SODIUM MONOFLUORO PHOSPHATE	276
FLUORIDE	
DETERMINATION OF MICROQUANTITIES OF FLUORIDE BY ION-EXCHANGE SPECTROPHOTOMETRY	134
3- FORMYLSALICYLIC ACID	
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III); ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES	110
FRACTAL SCATTERING	
A NEW SCALE INVARIANCE BEHAVIOUR IN FRACTAL SCATTERING	954
FULLERENES	
EXTRACTION OF FULLERENES IN ORGANIC SOLVENTS AND THE DEVELOPMENT OF SUPERIOR ISOLATION PROCEDURES	F32
NITROGEN DERIVATIVES OF C-60 AND C-70 : INTERACTION OF FULLERENES WITH NITROGEN IN GAS PHASE AND WITH AMINES IN SOLUTION PHASE	F27
PHYSICS OF UNDOPED AND DOPED C-60 FULLERENES	F64
PREFACE (SPECIAL ISSUE ON FULLERENES)	F1
SIMPLE STRUCTURAL AND BONDING REPRESENTATIONS OF FULLERENES	F51
STUDIES ON STRUCTURAL AND ELECTRONIC PROPERTIES OF UNDOPED AND DOPED FULLERENES C-60 AND C-70	F92
TOWARDS A CORRELATED ELECTRONIC STRUCTURE OF FULLERENES	F56
FULLERIDES	
THE PROBLEM OF CONDUCTING AND SUPERCONDUCTING FULLERIDES	F100
GADALINIUM(III)	
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS	855
GAMMA RADIOLYSIS	
EFFECT OF ALKALI HALIDE ADDITIVES ON THE GAMMA RADIOLYSIS OF THORIUM NITRATE	915
GAMMA RAY INDUCED DECOMPOSITION	
GAMMA RAY INDUCED DECOMPOSITION OF LANTHANIDE NITRATES	184
GAMMA RAY INDUCED DECOMPOSITION OF LANTHANIDE DOUBLE NITRATES WITH SOME BIVALENT CATIONS	878
GAMMA-OXOACIDS	
KINETICS AND MECHANISM OF OXIDATION OF GAMMA-OXOACIDS BY ACID PERMANGANATE	845
GANGULI S SEE SENGUPTA A C	909
GANGULY P	
SPREADING OF C-60 ON AIR-WATER INTERFACE	F42
GARG A N SEE JOSHI N G	184
915	
SEE KULKARNI S P	878
SEE LANJEWAR R B	849
GAS PHASE	
NITROGEN DERIVATIVES OF C-60 AND C-70 : INTERACTION OF FULLERENES WITH NITROGEN IN GAS PHASE AND WITH AMINES IN SOLUTION PHASE	F27
GELATIN	
COMPLEXATION REACTION ON THE IMMOBILIZED MATRICES: COMPLEXES OF IRON(III) HEXACYANOFERRATE(II) AND SOME N,O AND N,S CONTAINING LIGANDS FORMED ON A THIN GELATIN LAYER	54
GHOSH PREMAMOY	
PHOTOPOLYMERIZATION OF METHYL METHACRYLATE USING DICHLOROACETIC ACID AND DIMETHYLANILINE COMBINATION AS PHOTOINITIATOR	71
GHOSH S K SEE SENGUPTA A C	909
GHOSH SOUMYADEB	
ELECTROMEMBRANE FROM POLYELECTROLYTE COMPLEX OF POLYANILINE AND CARBOXYMETHYLCELLULOSE	338
GHOSH T K SEE MUKHERJEE G N	478
GLASS TRANSITION TEMPERATURE	
MICROSTRUCTURE AND GLASS TRANSITION TEMPERATURE DETERMINATION OF STYRENE-METHYL ACRYLATE COPOLYMERS BY C-13 NMR SPECTROSCOPY	903
GLYCERIN	
A NEW CATALYST FOR THE PREPARATION OF OLEATE OF GLYCERIN	449
(GLYCINATO) PENTAAMMINECOBALT(III)	
KINETCIS AND MECHANISM OF COMPLEX FORMATION BETWEEN O-BONDED (GLYCINATO)PENTAAMMINECOBALT(III) AND (GLYCINATO)TETRAETHYLENE	

PAGE

PENTAMINECOBALT(III) IONS WITH NICKEL(II) IN AQUEOUS MEDIUM 678
(GLYCINATO)TETRAETHYLENE PENTAMINECOBALT(III)
KINETCIS AND MECHANISM OF COMPLEX FORMATION BETWEEN O-BONDED (GLYCINATO)PENTAAMMINECOBALT(III) AND (GLYCINATO)TETRAETHYLENE PENTAMINECOBALT(III) IONS WITH NICKEL(II) IN AQUEOUS MEDIUM 678
GLYCINE
MIXED LIGAND COMPLEX FORMATION OF CU2+ ION WITH 6-AMINOPENICILLANIC ACID IN THE PRESENCE OF BIPYRIDINE, GLYCINE AND ADENINE 478
X-RAY K-ABSORPTION SPECTRAL STUDIES OF SOME COPPER(II) MIXED LIGAND COMPLEXES WITH GLYCINE AS PRIMARY LIGAND 929
GLYOXALATE
KINETICS AND MECHANISM OF OXIDATION BY METAL IONS: PART XV—OXIDATION OF GLYOXALATE ION BY ALKALINE OSMIUM TETROXIDE 788
GODBOLE P D SEE POTDAR H S 870
GOSWAMI A N
REMOVAL OF PHENOL FROM REFINERY WASTE WATERS USING LIQUID SURFACTANT MEMBRANES IN A CONTINUOUS COLUMN CONTACTOR 361
GOVINDARAJ A SEE RAO C N R F27
GOWDA B THIMME SEE PARDHASARADHI V 175
GOYAL R N
ELECTROCHEMICAL OXIDATION OF 5,6-DIHYDROXYTRYPTAMINE AT SOLID ELECTRODES 693
ELECTROCHEMICAL OXIDATION OF 2-AMINOBENZIMIDAZOLE AT PYROLYTIC GRAPHITE ELECTRODE 794
INVESTIGATIONS ON ELECTROCHEMICAL OXIDATION OF 2-MERCAPTOBENZOTHIAZOLE 237
GRAPH THEORY
CORRELATION OF SOME PHYSICAL PROPERTIES OF ALIPHATIC MONOALCOHOLS AND AMINES BY GRAPH THEORY 141
GRAPHITE ELECTRODE
ELECTROCHEMICAL OXIDATION OF 2-AMINOBENZIMIDAZOLE AT PYROLYTIC GRAPHITE ELECTRODE 794
GREEN SANDSTONE
TRACE ANALYSIS OF GREEN SANDSTONE BY VOLTAMMETRY 210
GUANIDINIUM
SYNTHESIS AND CHARACTERISATION OF SODIUM, POTASSIUM, GUANIDINIUM AND TETRAMETHYLAMMONIUM SALTS OF 17-TUNGSTOVANADODIARSENATE(V) 64
GUANINE
OXYGEN-MEDIATED SPECTRAL OSCILLATIONS IN BIOMOLECULES AND IMPORTANCE OF COEXISTING TAUTOMERS: CASE OF GUANINE 558
GUHA B K SEE DATTA NIVEDITA 342
GUPTA K S SEE BHARGAVA RACHNA 683
SEE SHARMA MADHU 723
GUPTA MOOL C SEE WARHADPANDE SEEMA V 43
GUPTA S K SEE BAJAJ RAKESH 892
GUPTA S P
MECHANISM OF CHEMICAL CARCINOGENESIS 526
GUPTA T C S M SEE GOSWAMI A N 361
GUPTA Y K SEE MISHRA DILIP KUMAR 91
GURU ROW T N SEE PRADEEP T F17
GUTMAN IVAN

PAGE

CYCLIC CONJUGATION IN BENZO-ANNELATED POLYACENES 647
ALFA- HALOGENO CARBONYL
KINETICS OF REACTION OF TRIETHYLAMMONIUM CARBOXYLATES WITH ALFA-HALOGENO CARBONYL COMPOUNDS IN ORGANIC SOLVENTS:PART 3 — EFFECT OF SOLVENTS ON THE REACTION OF PHENACYLBROMIDE WITH TRIETHYLAMMONIUM ACETATE 427
HALOGENOCOBALT(III)
SYNTHESIS AND CHARACTERISATION OF HALOGENOCOBALT(III) COMPLEXES OF 3,8-DIMETHYL-5,6-BENZO-4,7-DIAZADECA-3,7-DIENE-2,9-DIONE DIOXIME WITH SUBSTITUTED PYRIDINES 800
HAMMETT'S EQUATION
NEW SOFTNESS PARAMETERS AND HAMMETT'S EQUATION 586
HARIHARAN Y SEE SUNDAR C S F92
HAROGOPPAD S B
MOLECULAR TRANSPORT OF BINARY LIQUID MIXTURES INTO EPDM AND NBR MEMBRANES AT 25 DEG C 328
HETEROBINUCLEAR COMPLEX FORMATION
HETEROBINUCLEAR COMPLEX FORMATION BY IMINODIACETIC ACID AND DL-2,3-DIAMINOPROPIONIC ACID WITH SOME TRANSITION METAL IONS — PART I 760
HETEROGENEOUS SUPPORTED CATALYSTS
SOLVENT EXTRACTION — ELECTROTHERMAL ATOMIC ABSORPTION ANALYSIS OF PLATINUM IN HETEROGENOUS SUPPORTED CATLYSTS 39
HEXACHLOROIRIDATE(IV)
KINETICS OF THE REDUCTION OF HEXACHLOROIRIDATE(IV) BY L-METHIONINE IN AQUEOUS SOLUTIONS 975
HEXACYANOFERRATE(II)
MEDIUM EFFECTS ON THE ELECTRON-TRANSFER PROCESSES: REDUCTION OF AQUAPENTAAMMINECOBALT(III) BY HEXACYANOFERRATE(II) IN ETHYLENEGLYCOL-WATER, ETHYLENE CA BONATE-WATER AND UREA-WATER MEDIA 824
HIGH MOLECULAR WEIGHT AMINES
LIQUID-LIQUID EXTRACTION OF MOLYBDENUM(VI) FROM ASCORBATE SOLUTION WITH HIGH MOLECULAR WEIGHT AMINES 265
HISTIDINE
MIXED LIGAND COMPLEXES OF PLATINUM(II) WITH HISTIDINE AS PRIMARY LIGAND AND PURINES, PYRIMIDINES AND NUCLEOSIDES AS SECONDARY LIGANDS 28
HMDE
VOLTAMMETRY OF [RU(HEDTA)(OH2)] AT HMDE 457
HOMOGENEOUS CATALYTIC HYDROGENTATION
HOMOGENEOUS CATALYTIC HYDROGENATION OF ORGANIC COMPOUNDS USING ORTHOMETALLATE SCHIFF BASE COMPLEXES OF PALLADIUM(II) 243
HOT ATOM CHEMISTRY
HOT ATOM CHEMISTRY IN OXYANION TARGETS; PART V — PRE-ACTIVATION HEAT TREATMENT STUDY OF RECOIL MN-56 IN PERMANGANATES 651
HUA YANG SEE RONGSHENG LI 449
HUSSAIN REDDY K SEE SAYAJI RAO 58
HYDRAZINE
KINETICS OF THE REACTION OF HYDRAZINE WITH 2-HYDROXY-1-NAPHTHALDEHYDE 423
HYDRAZONE
HYDRAZONES DERIVED BY THE CONDENSATION OF

INDEX

	PAGE
4-METHOXYBENZOYL HYDRAZIDE WITH SALICYLALDEHYDE, O-HYDROXYACETOPHENONE AND DIACETYLMONOXIME AS LIGANDS FOR COBALT (II & III)	937
HYDROGEN BONDING	
HYDROGEN BONDING OR TRANSIENT COORDINATION OF PENDANT GROUP: CAUSE FOR LABILITY IN LIGAND SUBSTITUTION REACTION OF AMINOPOLYCARBOXYLATORUTHENIUM (III) COMPLEXES	152
HYDROGEN EVOLUTION REACTION	
KINETICS OF HYDROGEN EVOLUTION REACTION ON BRIGHT PLATINUM ELECTRODE IN AQUEOUS DIMETHYLFORMAMIDE SOLUTIONS BY CYCLIC VOLTAMMETRY	86
HYDROGEN SPILLOVER	
HYDROGEN SPILLOVER ON A PLATINUM/CARBON FUEL CELL CATALYST	957
HYDROGENATION	
MOSSBAUER STUDIES ON TIN BEARING CATALYSTS USED FOR HYDROGENATION OF COAL (LETTER TO EDITOR)	482
HYDROLYSIS	
BASE CATALYSED HYDROLYSIS OF BETA2-CIS-(CHLORO)(BENZIMIDAZOLE)(TRIEN)COBALT(III) CATION: A COMPARISON OF THE REACTIVITIES OF THE BENZIMIDAZOLE AND BENZIMIDAZOLATO SPECIES OF THE COMPLEX	747
HYDROXAMIC ACIDS	
STUDIES ON SOME SIMPLE AND MIXED LIGATED OXOVANADIUM(V) COMPLEXES OF HYDROXAMIC ACIDS	202
2- HYDROXY-1-NAPHTHALDEHYDE	
KINETICS OF THE REACTION OF HYDRAZINE WITH 2-HYDROXY-1-NAPHTHALDEHYDE	423
O- HYDROXYACETOPHENONE	
HYDRAZONES DERIVED BY THE CONDENSATION OF 4-METHOXYBENZOYL HYDRAZIDE WITH SALICYLALDEHYDE, O-HYDROXYACETOPHENONE AND DIACETYLMONOXIME AS LIGANDS FOR COBALT (II & III)	937
2- HYDROXYACETOPHENONE	
SYNTHESIS AND CHARACTERIZATION OF COMPLEXES OF NICKEL(II), COPPER(II), COBALT(II) AND COBLAT(III) WITH MORPHOLINE N-THIOHYDRAZONES FORMED FROM SALICYLALDEHYDE AND 2-HYDROXYACETOPHENONE	34
O- HYDROXYACETOPHENONEPHENYLHYDRAZONES	
STUDIES ON THE COORDINATION OF CU(II) WITH O-HYDROXYACETOPHENONEPHENYLHYDRAZONES	251
O- HYDROXYBENZYLAMINE	
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES	110
O- HYDROXYNAPHTHALIDENE BENZOYL HYDRAZONE	
BINARY COMPLEXES IN SOLUTION OF SCHIFF BASE LIGANDS, O-HYDROXYNAPHTHALIDENE BENZOYL AND SALICYLOYL HYDRAZONE WITH THORIUM, URANYL AND VANADYL IONS AND TERNARY COMPLEXES OF THORIUM WITH AMINOPOLYCARBOXYLIC ACIDS AS PRIMARY LIGANDS	764
HYPERPOLARIZABILITIES	
FIRST ORDER HYPERPOLARIZABILITIES OF PUSH-PULL OLEFINS	518
IMIDAZOLE	
KINETICS AND MECHANISM OF ACID AND BASE HYDROLYSIS OF CIS-(BIOXALATO)(IMIDAZOLE)BIS(ETHYLENEDIAMINE)COBALT(III) ION:A STUDY OF THE ROLE OF THE COORDINATED IMIDAZOLE AND ITS ANION	832
IMINODIACETATOTETRAAMMINE	
ACID HYDROLYSIS OF IMINODIACETATO TETRAAMMINE COBALT(III), [CO(NH3)(4)IDAH](CLO4)2 COMPLEX	898
IMINODIACETIC ACID	
HETEROBINUCLEAR COMPLEX FORMATION BY IMINODIACETIC ACID AND DL-2,3-DIAMINOPROPIONIC ACID WITH SOME TRANSITION METAL IONS - PART I	760
IMMOBILIZATION BEHAVIOUR	
STUDY ON THE IMMOBILIZATION BEHAVIOUR OF BARIUM,CADMIUM, AND ANTIMONY OVER SN(IV) AND CE(IV) OXIDES	120
IMMOBILIZED MATRICES	
COMPLEXATION REACTION ON THE IMMOBILIZED MATRICES: COMPLEXES OF IRON(III) HEXACYANOFERRATE(II) AND SOME N,O AND N,S CONTAINING LIGANDS FORMED ON A THIN GELATIN LAYER	54
INFRARED STUDIES	
SYNTHESIS, ELECTRONIC, INFRARED AND MOSSBAUER SPECTROSCOPIC STUDIES OF MIXED LIGAND COMPLEXES OF MONO- AND BIS(N,N'-DIETHYLDITHIOCARBAMATO)IRON(III) WITH O,N AND S CONTAINING CHELATING LIGANDS AND THEIR THERMAL DECOMPOSITION	849
INORGANIC ION EXCHANGER	
SYNTHESIS, CHARACTERISATION AND REACTIVITY OF CU(II) AMINE COMPLEXES SUPPORTED ON AN INORGANIC ION EXCHANGER, ZIRCONIUM MOLYBDATE	771
INTER-ELECTRONIC REPULSION (RACAH) PARAMETERS	
AN INDIRECT DETERMINATION OF CHANGES IN THE INTER-ELECTRONIC REPULSION (RACAH) PARAMETERS AND MAGNITUDE OF EXTRA STABILISATION IN LANTHANIDES	403
INTRAMOLECULAR INTERACTIONS	
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS	855
IODINATING REAGENT	
MONOPYRIDINE IODINE(I) CHLORIDE IN ETHANOL AS A NEW IODINATING REAGENT FOR METAL BETA-DIKETONES AND KETONEIMINES	702
ION EXCHANGE	
THERMODYNAMIC EQUILIBRIUM CONSTANTS OF ALKALI METAL ION-HYDROGEN ION EXCHANGES AND RELATED SWELLING FEEE ENERGIES IN PERFLUOROSULPHONATE IONOMER MEMBRANE (NAFION-117) IN AQUEOUS MEDIUM	317
ION EXCHANGE MEMBRANE	
ELECTROCHEMICAL STUDIES ON ZIRCONIUM PHOSPHATE-KYNAR COMPOSITE ION EXCHANGE MEMBRANE SYSTEM	874
ION EXCHANGER	
SEPARATION AND RECOVERY OF VANADIUM FROM A CHELATING ION EXCHANGER CONTAINING N-BENZOYLPHENYL HYDROXYLAMINE AS A FUNCTIONAL GROUP	288
ION-EXCHANGE SPECTROPHOTOMETRY	
DETERMINATION OF MICROQUANTITIES OF	

PAGE

FLUORIDE BY ION-EXCHANGE SPECTROPHOTOMETRY 134

ION-SELECTIVE ELECTRODE
ION-SELECTIVE ELECTRODE BASED ON DINITROPHENOL-ALANINE CONJUGATE 639

ION-SOLVENT INTERACTIONS
A STUDY ON ION-SOLVENT INTERACTIONS OF SOME TETRA-ALKLYL AND MULTICHARGED ELECTROLYTES IN WATER AT DIFFERENT TEMPERATURES 716

IONOPHORES
TRANSPORT OF ALKALI METAL CATIONS THROUGH LIQUID MEMBRANE USING NON-CYCLIC SYNTHETIC IONOPHORES 383

IORDANSKII A L
TRANSPORT OF WATER THROUGH CELLULOSE DERIVATIVES USED AS THE COVER OF OSMOTIC SYSTEMS FOR DRUG RELEASE 366

IRON
SIGMA-BONDED ORGANOMETALLICS OF IRON AND THEIR FACILE CONVERSION INTO PI COMPLEXES 699

IRON ADDUCTS
INVESTIGATIONS OF IRON ADDUCTS OF C-60: A NOVEL FeC-60 IN THE SOLID STATE WITH FE INSIDE THE C-60 CAGE F17

IRON OXIDE CATALYST
INVESTIGATION OF CR(3+) SUBSTITUTED (GAMMA)-FE2O3 CATALYST IN ITS ACTIVE FORM 909

IRON(II)
KINETICS OF OXIDATION OF BIS(2,2',6',2"-TERPYRIDINE)IRON(II) BY CERIUM(IV) 125
PERTRACTION OF COPPER(II) IN THE PRESENCE OF COBALT(II), NICKEL(II), MANGANESE(II) AND IRON(II) USING SUPPORTED LIQUID MEMBRANE 379

IRON(II) DIIMINES
TETRAOXOMOLYBDATO AND TETRAOXOTUNGSTATO COMPLEXES OF IRON(II) DIIMINES 896

IRON(III)
KINETIC STUDIES ON THE SOLVENT EXTRACTION OF IRON(III) FROM AQUEOUS SOLUTION WITH 1-PHENYL-3-METHYL-4-(P-NITROBENZOYL)PYRAZOL-5-ONE DISSOLVED IN CHLOROFORM: RATE OF FORWARD EXTRACTION 981
MICELLAR EFFECTS ON THE REACTIONS OF COMPLEX IONS IN SOLUTION: PART 12 - KINETICS OF REVERSIBLE COMPLEXATION OF OXALATOPENTAAMMINECOBALT(III) WITH NICKEL(II) AND IRON(III) IN THE PRESENCE OF ANIONIC MICELLES OF SODIUM DODECYL SULPHATE IN AQUEOUS MEDIUM 166
OLEFIN EPOXIDATION USING IRON(III)SCHIFF BASE COMPLEXES AS CATALYST 785
REACTIONS IN MICELLAR SOLUTIONS: PART 13(1) - KINETICS AND MECHANISM OF THE REVERSIBLE COMPLEXATION OF IRON(III) BY (ALFA BETA S)(TETRAETHYLENEPENTAMINE)(SALICYLATO)COBALT(III) AND CIS(AMMINE)BIS(ETHYLENEDIAMINE)(SALICYLATO)COBALT(III) IONS IN AQUEOUS ANIONIC MICELLAR MEDIUM 412
SODIUM RUTHENATE CATALYSTS IN THE OXIDATION OF SUBSTITUTED BENZYL ALCOHOLS BY HEXACYANOFERRATE(III) 309
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES 110
SYNTHESIS AND CHARACTERIZATION OF CHLORO-ACETYLACETONATO-, AND ALKOXO-NONAISOPROPOXODIZIRCONATOIRON(III) DERIVATIVES 886
SYNTHESIS, CHARACTERIZATION AND FUNGITOXICITY OF CU(II), NI(II), ZN(II), CO(II), FE(III) AND MN(III) CHELATES WITH (5-PHENYL-1,3,4-OXADIAZOL-2-YL)-N-BENZOYL DITHIOCARBAMATE 472
SYNTHESIS, ELECTRONIC, INFRARED AND MOSSBAUER SPECTROSCOPIC STUDIES OF MIXED LIGAND COMPLEXES OF MONO- AND BIS(N,N'-DIETHYLDITHIOCARBAMATO)IRON(III) WITH O,N AND S CONTAINING CHELATING LIGANDS AND THEIR THERMAL DECOMPOSITION 849

IRON(III) HEXACYANOFERRATE(II)
COMPLEXATION REACTION ON THE IMMOBILIZED MATRICES: COMPLEXES OF IRON(III) HEXACYANOFERRATE(II) AND SOME N,O AND N,S CONTAINING LIGANDS FORMED ON A THIN GELATIN LAYER 54

ISHWAR DAS
CHEMICAL INSTABILITY AND PERIODIC PRECIPITATION OF CUCRO4 IN BATCH AND FLOW REACTORS 612

ISOLATION PROCEDURE
EXTRACTION OF FULLERENES IN ORGANIC SOLVENTS AND THE DEVELOPMENT OF SUPERIOR ISOLATION PROCEDURES F32

ISOMER STABILITIES
CONTRASTING ISOMER STABILITIES OF SILABORANES AND CARBORANES: SI2B3H5 AND C2B3H5 ISOMERS 645

ISONICOTINIC ACID HYDRAZIDE
SYNTHESIS AND CHARACTERIZATION OF SOME TRANSITION METAL PICRATE COMPLEXES WITH ISONICOTINIC ACID HYDRAZIDE 892

ISONITROSO-4-METHYL-2-PENTANONE
EXTRACTIVE AND SPECTROPHOTOMETRIC DETERMINATION OF CO(II) AT TRACE LEVELS USING ISONITROSO-4-METHYL-2-PENTANONE 984

IYENGAR T ASHA
KINETICS AND MECHANISM OF OXIDATION OF MONOSACCHARIDES BY SODIUM-N-BROMOBENZENESULPHONAMIDE IN ALKALINE MEDIUM 838
KINETICS OF OXIDATION OF DIGLYCINE BY BROMAMINE-B IN PERCHLORIC ACID MEDIUM 752

IYER R M SEE IYER SITA T 317

IYER SITA T
THERMODYNAMIC EQUILIBRIUM CONSTANTS OF ALKALI METAL ION-HYDROGEN ION EXCHANGES AND RELATED SWELLING FEEE ENERGIES IN PERFLUOROSULPHONATE IONOMER MEMBRANE (NAFION-117) IN AQUEOUS MEDIUM 317

IYUN J FEMI
THE STOICHIOMETRY AND KINETICS OF OXIDATION OF 1,4-BENZENEDIOL BY DIAQUOTETRAKIS(2,2'-BIPYRIDINE)-MU-OXODIRUTHENIUM(III) CATION IN PERCHLORATE MEDIUM 943
SEE AYOKO G ADEFIKAYO 975

JAGAN NATH
VISCOMETRIC BEHAVIOUR OF BINARY SYSTEMS OF METHYL ETHYL KETONE WITH METHYLENE CHLORIDE, 1,2-DICHLOROETHANE, TRICHLOROETHENE, TETRACHLOROETHENE AND

	PAGE
CYCLOHEXANE	
JAHAGIRDAR D V SEE KULKARNI S G	626
JAI BHAGWAN	251
THERMAL AND SPECTRAL STUDIES ON CELLULOSE ARYLPHOSPHINITES IN AIR	817
JAIN ABHAY K	
LIQUID MEMBRANE PHENOMENA: CHARACTERIZATION OF LIQUID MEMBRANES GENERATED BY LECITHIN	569
JAIN C L SEE BAJAJ RAKESH	892
JAIN MAMTA SEE MEHROTRA K N	452
JAIN N	
SYNTHESIS, CHARACTERIZATION AND CYTOTOXICITY OF (3,4-DIAMINOBENZOIC ACID)-HALOPLATINUM(II)/PALLADIUM(II)	102
JAIN R SEE AGARWAL D D	785
JAIN V K SEE CHAUDHURY S	131
JAIN VIMAL K	
SYNTHESIS AND SPECTROSCOPIC STUDIES OF DI-S- AND T-BUTYLTIN(IV) CARBOXYLATES	861
JAKY M SEE SZAMMER J	417
JANARDANAN C	
THE EFFICACY OF ANTIMONY(III) MOLYBDOTUNGSTATE AS AN EXCHANGER FOR THE SEPARATION OF LEAD	136
JAYARAMA REDDY S SEE SRINIVASULU REDDY G	732
JEMMIS ELUVATHINGAL D	
CONTRASTING ISOMER STABILITIES OF SILABORANES AND CARBORANES: SI2B3H5 AND C2B3H5 ISOMERS	645
JEYASUBRAMANIAN K SEE RAMALINGAM S K	702
JOSHI N G	
EFFECT OF ALKALI HALIDE ADDITIVES ON THE GAMMA RADIOLYSIS OF THORIUM NITRATE	915
GAMMA RAY INDUCED DECOMPOSITION OF LANTHANIDE NITRATES	184
SEE KULKARNI S P	878
JOSHI S K SEE RATAN LAL	F100
SEE SHRIVASTAVA B D	929
JOSHI VIRENDRA	
SYNTHESIS AND CHARACTERISATION OF BIS(ETA5 -CYCLOPENTADIENYL) N-N'-DISUBSTITUTED SCHIFF BASE COMPLEXES OF TITANIUM(IV)	61
JOTHIBAI MARGRET R SEE SIVASANKARAN NAIR M	865
KALIAPPAN I SEE DHAMODARAN R	F32
KALIDAS C SEE SREEKUMAR T K	782
KALPAGAM V SEE GHOSH SOUMYADEB	338
SEE VISHALAKSHI B	334
KALPANA G	
SOLVENT EXTRACTION - ELECTROTHERMAL ATOMIC ABSORPTION ANALYSIS OF PLATINUM IN HETEROGENOUS SUPPORTED CATLYSTS	39
KANNAN K R SEE PRADEEP T	F17
KANNAN S SEE SIKKANDAR G	845
KANTA RAO P SEE KHAJA MASTHAN S	436
SEE MAHIPAL REDDY B	957
KANUNGO S B SEE MOHAPATRA R	389
KARIM M M SEE AHMED I	699
KARVE M A	
LIQUID-LIQUID EXTRACTION OF MOLYBDENUM(VI) FROM ASCORBATE SOLUTION WITH HIGH MOLECULAR WEIGHT AMINES	265
KATYAL M SEE SATAKE M	67
KAUR J SEE SODHI G S	972
KAUSHIK AJAY	
SYNTHESIS AND CHARACTERIZATION OF N-ALKYL-2-MERCAPTOACETAMIDE COMPLEXES OF ANTIMONY(III)	281
KAUSHIK NARENDER K SEE JOSHI VIRENDRA	61
KEERTHI C N SEE REDDY P RABINDRA	855
KETONEIMINES	
MONOPYRIDINE IODINE(I) CHLORIDE IN ETHANOL AS A NEW IODINATING REAGENT FOR METAL BETA-DIKETONES AND KETONEIMINES	702
KHAJA MASTHAN S	
STRUCTURE SENSITIVE NITROGEN CHEMISORPTION ON SUPPORTED RUTHENIUM CATALYSTS	436
KHAN A A SEE SHAH P R	369
KHAN G Y SEE SHAH P R	369
KHAN N H SEE TAQUI KHAN M M	883
KHANOLKAR D D SEE KULKARNI S G	251
KHETRAPAL C L SEE RAO C N R	F5
KHOPKAR S M SEE KARVE M A	265
KISHORE K	
PLASTICIZATION PHENOMENA AND FIRE RETARDANCY IN PVC	590
KONAR B	
SEPARATION OF PLATINUM AND PALLADIUM USING A CHELATING RESIN CONTAINING QUINALDINIC ACID AMIDE GROUP	735
KOSHY V J SEE KALPANA G	39
KOTESWAR RAO A	
STUDIES ON BIOLOGICALLY RELEVANT TERNARY METAL COMPLEXES: PART VI - STABILITY OF TERNARY CO(II), NI(II),CU(II) AND ZN(II) COMPLEXES INVOLVING AMINOPOLYCARBOXYLIC ACIDS AND AMINO ACIDS	256
KRISHAN LAL SEE BAJAJ RAKESH	892
SEE JAI BHAGWAN	817
KRISHNAMURTHY H R	
PHYSICS OF UNDOPED AND DOPED C-60 FULLERENES	F64
KRISHNAN V SEE RAO C N R	F5
KRISHNASAMY V SEE SINHA P K	808
KSHIRSAGAR S T SEE GANGULY P	F42
KULKARNI G U SEE PRADEEP T	F17
KULKARNI S D SEE BAGUL A G	661
KULKARNI S G	
STUDIES ON THE COORDINATION OF CU(II) WITH O-HYDROXYACETOPHENONEPHENYLHYDRAZONES	251
KULKARNI S P	
GAMMA RAY INDUCED DECOMPOSITION OF LANTHANIDE DOUBLE NITRATES WITH SOME BIVALENT CATIONS	878
KULKARNI V R SEE PASTAPUR S M	182
KUMAR R SEE BHAGAT S	601
KUMAR S SANAL SEE TAQUI KHAN M M	714
KUMAR SANJEEV SEE LOBANA TARLOK S	726
KUNDU KIRON K SEE RAY SUBRATA K	86
KUNDU M L SEE SENGUPTA A C	909
KUNJAPPU JOY T	
BINDING OF SURFACTANTS ONTO DNA AND SOLUBILIZATION OF DNA/SURFACTANT COMPLEX IN MICELLES	432
KURESHY R I SEE TAQUI KHAN M M	883
KURIACOSE J C SEE RUFUS I BERNARD	6
KUSHWAH R S	
STUDIES OF INORGANIC PRECIPITATE MEMBRANE: EVALUATION OF MEMBRANE SELECTIVITY FROM BI-IONIC POTENTIAL AND CONDUCTIVITY MEASUREMENTS	439
KUSUM KUMARI SEE SINGH KEHAR	581
KYNAR	
ELECTROCHEMICAL STUDIES ON ZIRCONIUM PHOSPHATE-KYNAR COMPOSITE ION EXCHANGE MEMBRANE SYSTEM	874
LABILITY IN LIGAND SUBSTITUTION REACTION	
HYDROGEN BONDING OR TRANSIENT COORDINATION	

PAGE

OF PENDANT GROUP: CAUSE FOR LABILITY IN LIGAND SUBSTITUTION REACTION OF AMINOPOLYCARBOXYLATORUTHENIUM (III) COMPLEXES 152
LABILITY TOWARDS SUBSTITUTION
CRYSTAL AND MOLECULAR STRUCTURE OF AQUOETHYLENEDIAMINE-TETRAACETATORUTHENIUM(III) AND ITS EXTRAORDINARY LABILITY TOWARDS SUBSTITUTION 303
LAKSHMANAN VASANTHI
SYNTHESIS AND CHARACTERIZATION OF OXOMOLYBDENUM(V) COMPLEX WITH DITHIOOXAMIDE 806
TETRAOXOMOLYBDATO AND TETRAOXOTUNGSTATO COMPLEXES OF IRON(II) DIIMINES 896
LAKSHMI KUMARI Y SEE KOTESWAR RAO A 256
LAL K B SEE SINHA P K 808
LALLA N P
STRUCTURAL AND MICROSTRUCTURAL CHARACTERISTICS OF SOLID C-60 F79
LANJEWAR R B
SYNTHESIS, ELECTRONIC, INFRARED AND MOSSBAUER SPECTROSCOPIC STUDIES OF MIXED LIGAND COMPLEXES OF MONO- AND BIS(N,N'-DIETHYLDITHIOCARBAMATO)IRON(III) WITH O,N AND S CONTAINING CHELATING LIGANDS AND THEIR THERMAL DECOMPOSITION 849
LANTHANIDE DOUBLE NITRATES
GAMMA RAY INDUCED DECOMPOSITION OF LANTHANIDE DOUBLE NITRATES WITH SOME BIVALENT CATIONS 878
LANTHANIDE NITRATES
GAMMA RAY INDUCED DECOMPOSITION OF LANTHANIDE NITRATES 184
LANTHANIDES
AN INDIRECT DETERMINATION OF CHANGES IN THE INTER-ELECTRONIC REPULSION (RACAH) PARAMETERS AND MAGNITUDE OF EXTRA STABILISATION IN LANTHANIDES 403
LANTHANUM(III)
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS 855
LASER FLASH PHOTOLYSIS
TRIPLET STATE AND SEMIQUINONE FREE RADICAL OF 5-METHOXYQUINIZARIN: A LASER FLASH PHOTOLYSIS AND PULSE RADIOLYSIS STUDY 811
LAWAL H MUDA SEE IYUN J FEMI 943
LAXMA REDDY K
SYNTHESIS AND SPECTRAL STUDIES OF PT(II) COMPLEXES WITH 2,3-DISUBSTITUTED QUINAZOLINE-(3H)-4-ONES 970
LEAD
THE EFFICACY OF ANTIMONY(III) MOLYBDOTUNGSTATE AS AN EXCHANGER FOR THE SEPARATION OF LEAD 136
LECITHIN
LIQUID MEMBRANE PHENOMENA: CHARACTERIZATION OF LIQUID MEMBRANES GENERATED BY LECITHIN 569
LEE J R SEE SATAKE M 67
LI-ZHUANG ZOU
STUDY ON THERMODYNAMICS OF AQUEOUS SOLUTION OF SODIUM TETRAPHENYLBORATE 443
LIMAYE S N
AN INDIRECT DETERMINATION OF CHANGES IN THE INTER-ELECTRONIC REPULSION (RACAH) PARAMETERS AND MAGNITUDE OF EXTRA STABILISATION IN LANTHANIDES 403
LIN-WEI LI SEE LI-ZHUANG ZOU 443
LIQUID MEMBRANE PHENOMENA
LIQUID MEMBRANE PHENOMENA IN THE MULTIPLE ACTIONS OF PSYCHOTROPIC DRUGS 533
LIQUID MEMBRANE PHENOMENA: CHARACTERIZATION OF LIQUID MEMBRANES GENERATED BY LECITHIN 569
LIQUID MEMBRANES
CARRIER MEDIATED TRANSPORT THROUGH LIQUID MEMBRANES – STUDIES ON TRANSPORT OF NICKEL IONS USING TETRADENTATE THIOIMINATO SCHIFF BASE LIGANDS AS CARRIERS 393
MACROCYCLE-FACILITATED TRANSPORT OF URANYL IONS ACROSS SUPPORTED LIQUID MEMBRANES USING DICYCLOHEXANO-18-CROWN-6 AS MOBILE CARRIER 373
PERTRACTION OF COPPER(II) IN THE PRESENCE OF COBALT(II), NICKEL(II), MANGANESE(II) AND IRON(II) USING SUPPORTED LIQUID MEMBRANE 379
SEPARATION OF CO(II)-ZN(II), CO(II)-MN(II) AND ZN(II)-MN(II) SYSTEMS FROM THEIR BINARY SOLUTIONS THROUGH SUPPORTED LIQUID MEMBRANE CONTAINING ORGANOPHOSPHORUS ACID AS EXTRACTANT 389
STUDIES ON THE SELECTIVE CARRIER-MEDIATED TRANSPORT OF PLUTONIUM(IV) IONS THROUGH TRIBUTYL PHOSPHATE/DODECANE LIQUID MEMBRANES 323
TRANSPORT OF ALKALI METAL CATIONS THROUGH LIQUID MEMBRANE USING NON-CYCLIC SYNTHETIC IONOPHORES 383
LIQUID SURFACTANT MEMBRANES
REMOVAL OF PHENOL FROM REFINERY WASTE WATERS USING LIQUID SURFACTANT MEMBRANES IN A CONTINUOUS COLUMN CONTACTOR 361
LIQUID-LIQUID EXTRACTION
LIQUID-LIQUID EXTRACTION OF MOLYBDENUM(VI) FROM ASCORBATE SOLUTION WITH HIGH MOLECULAR WEIGHT AMINES 265
LOBANA TARLOK S
KINETICS OF RELEASE OF DITHIZONE FROM MERCURY(II) DITHIZONATE BY TRIPHENYLPHOSPHINE 726
SYNTHESIS & MULTINUCLEAR NMR STUDIES OF SOME 2-(2'-PYRIDYL)PHENYL SUBSTITUTED ORGANOTELLURIUM(IV)/MERCURY(II) COMPOUNDS 460
LOCALIZATION
LOCALIZATION OF EXCESS ELECTRONS IN DEFORMABLE MEDIA 539
LOHOKARE S P SEE DAS J 742
MACROCYCLE-FACILITATED TRANSPORT
MACROCYCLE-FACILITATED TRANSPORT OF URANYL IONS ACROSS SUPPORTED LIQUID MEMBRANES USING DICYCLOHEXANO-18-CROWN-6 AS MOBILE CARRIER 373
MADHAVA A S
STUDIES ON ELECTRODE KINETICS OF SCHIFF BASES IN AQUEOUS AND DMF MEDIA 947
MADHUSUDANAN P M SEE MATHEW BEENA 673
MAGNESIUM
CONVERSION OF METHANOL OVER METAL SALTS OF 12-MOLYBDOPHOSPHORIC ACID 921
MAGNESIUM(II)
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS 855

PAGE

MAGNETIC PARAMETERS
  CHEMICAL PROCESSING OF HEXAGONAL SR-FERRITE: PART II - EFFECT OF MODE OF WASHING AND FILTRATON ON THE MAGNETIC PARAMETERS 661
MAHADEVAN NEENA
  TRANSPORT OF ALKALI METAL CATIONS THROUGH LIQUID MEMBRANE USING NON-CYCLIC SYNTHETIC IONOPHORES 383
MAHADEVAPPA D S SEE IYENGAR T ASHA 838
MAHAJAN R K SEE CHAUDHARY S C 279
MAHAMMAD ALI
  BROMATE ION OXIDATION OF COBALT(II) COMPLEX OF ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID IN AQUEOUS ACIDIC MEDIUM: EXISTENCE OF AN AUTOCATALYTIC PROCESS 171
MAHAN ASHOK SEE NASIR MOHD IBRAHIM 901
MAHANTI BIBEKANANDA
  KINETIC AND MECHANISTIC STUDIES ON SUBSTITUTION REACTION OF AQUA-LIGANDS FROM CIS-DIAQUABIS[2-M-TOLYLAZO)-PYRIDINE]RUTHENIUM(II) ION WITH 2,2'-BIPYRIDINE IN AQUEOUS MEDIUM 688
MAHIPAL REDDY B
  HYDROGEN SPILLOVER ON A PLATINUM/CARBON FUEL CELL CATALYST 957
MAITI G C
  FLUORIDATION OF OH-APATITE ON INTERACTION WITH SODIUM MONOFLUORO PHOSPHATE 276
  SEE SENGUPTA A C 909
MAITI SUKUMAR
  THERMAL PROPERTIES OF ABA AND BAB TRIBLOCK COPOLYMERS 219
MAJEE B SEE SEN B K 1
MAJI SUBRATA SEE SAHA SAILESH C 260
MAKEN S SEE SINGH PREM P 619 227
MAKEN SANJEEV SEE SHARMA V K 721
MALEQUE ABDUL
  BINARY COMPLEXES IN SOLUTION OF SCHIFF BASE LIGANDS, O-HYDROXYNAPHTHALIDENE BENZOYL AND SALICYLOYL HYDRAZONE WITH THORIUM, URANYL AND VANADYL IONS AND TERNARY COMPLEXES OF THORIUM WITH AMINOPOLYCARBOXYLIC ACIDS AS PRIMARY LIGANDS 764
MALIK ASHOK KUMAR SEE ATAMJYOT 480
MALONIC ACID
  INFLUENCE OF SODIUM LAURYL SULFATE MICELLES ON THE OXIDATION OF MALONIC ACID BY CHROMIC ACID 710
MANDAL KRIPASINDHU SEE DEY KAMALENDU 937
MANDELIC ACID
  CORELATION ANALYSIS OF REACTIVITY IN THE OXIDATION OF SUBSTITUTED MALONIC ACIDS BY PYRIDINIUM FLUOROCHROMATE 706
MANDLOI S N SEE SHRIVASTAVA B D 929
MANGANESE(II)
  PERTRACTION OF COPPER(II) IN THE PRESENCE OF COBALT(II), NICKEL(II), MANGANESE(II) AND IRON(II) USING SUPPORTED LIQUID MEMBRANE 379
  SEPARATION OF CO(II)-ZN(II), CO(II)-MN(II) AND ZN(II)-MN(II) SYSTEMS FROM THEIR BINARY SOLUTIONS THROUGH SUPPORTED LIQUID MEMBRANE CONTAINING ORGANOPHOSPHORUS ACID AS EXTRACTANT 389
  SYNTHESIS AND CHARACTERIZTION OF NOVEL HOMO- AND HETERO-LEPTIC ALKOXOMETALLATES OF MANGANESE(II) 156
MANGANESE(III)
  POTENTIOMETRIC STUDIES ON ELECTROLYTICALLY GENERATED MANAGANES(III) ACETATE IN AQUEOUS ACETIC ACID: OXIDATION OF THIOSEMICARBAZIDE, ITS METAL COMPLEXES AND THIOSEMICARBAZONES 49
  SYNTHESIS, CHARACTERIZATION AND FUNGITOXICITY OF CU(II), NI(II), ZN(II), CO(II), FE(III) AND MN(III) CHELATES WITH (5-PHENYL-1,3,4-OXADIAZOL-2-YL)-N-BENZOYL DITHIOCARBAMATE 472
MANGANESE-56 RECOIL
  HOT ATOM CHEMISTRY IN OXYANION TARGETS; PART V - PRE-ACTIVATION HEAT TREATMENT STUDY OF RECOIL MN-56 IN PERMANGANATES 651
MANIKYAMBA P
  SOLVATION MODELS IN THE REACTION BETWEEN BENZYL BROMIDE AND S-TRIAZOLE 959
MATHEW BEENA
  COMPLEXATION OF CROSSLINKED POLYACRYLAMIDE-SUPPORTED AMINOLIGANDS WITH CU(II): EFFECT OF CROSSLINKING ON COMPLEXATION KINETICS 673
MATHEWS C K SEE DHAMODARAN R F32
MATHUR PAVAN SEE PANDEY H N 666
MCWHINNIE WILLIAM R SEE LOBANA TARLOK S 460
MEDIUM EFFECTS
  MEDIUM EFFECTS ON THE ELECTRON-TRANSFER PROCESSES: REDUCTION OF AQUAPENTAAMMINECOBALT(III) BY HEXACYANOFERRATE(II) IN ETHYLENEGLYCOL-WATER, ETHYLENE CA BONATE-WATER AND UREA-WATER MEDIA 824
MEHROTRA K N
  CONDUCTIVITY, VISCOSITY AND ULTRASONIC STUDIES OF RUBIDIUM CAPRYLATE 452
  PHYSICOCHEMICAL STUDIES ON ZINC DICAPRYLATE 756
MEHROTRA R C SEE DUBEY R K 156
  SEE SEN GUPTA ARUP K 23
  SEE SHAH A 886
MEHROTRA RAJ N SEE VISHNOI MINAKSHI 788
MEHROTRA RAM C
  DESIGN OF MOLECULAR SPECIES FOR SYNTHESIS OF ADVANCED CERAMIC MATERIALS 492
MEHTA S H SEE TAQUI KHAN M M 146
MEMBRANE
  CARRIER MEDIATED TRANSPORT THROUGH LIQUID MEMBRANES - STUDIES ON TRANSPORT OF NICKEL IONS USING TETRADENTATE THIOIMINATO SCHIFF BASE LIGANDS AS CARRIERS 393
  ELECTROCHEMICAL CHARACTERIZATION OF MEMBRANES 313
  ELECTROCHEMICAL STUDIES ON ZIRCONIUM PHOSPHATE-KYNAR COMPOSITE ION EXCHANGE MEMBRANE SYSTEM 874
  LIQUID MEMBRANE PHENOMENA IN THE MULTIPLE ACTIONS OF PSYCHOTROPIC DRUGS 533
  LIQUID MEMBRANE PHENOMENA: CHARACTERIZATION OF LIQUID MEMBRANES GENERATED BY LECITHIN 569
  MACROCYCLE-FACILITATED TRANSPORT OF URANYL IONS ACROSS SUPPORTED LIQUID MEMBRANES USING DICYCLOHEXANO-18-CROWN-6 AS MOBILE CARRIER 373

PAGE

MOLECULAR TRANSPORT OF BINARY LIQUID MIXTURES INTO EPDM AND NBR MEMBRANES AT 25 DEG C 328
PERMEATION THROUGH URINARY BLADDER MEMBRANES 565
PERTRACTION OF COPPER(II) IN THE PRESENCE OF COBALT(II), NICKEL(II), MANGANESE(II) AND IRON(II) USING SUPPORTED LIQUID MEMBRANE 379
REMOVAL OF PHENOL FROM REFINERY WASTE WATERS USING LIQUID SURFACTANT MEMBRANES IN A CONTINUOUS COLUMN CONTACTOR 361
SEPARATION OF CO(II)-ZN(II), CO(II)-MN(II) AND ZN(II)-MN(II) SYSTEMS FROM THEIR BINARY SOLUTIONS THROUGH SUPPORTED LIQUID MEMBRANE CONTAINING ORGANOPHOSPHORUS ACID AS EXTRACTANT 389
STUDIES ON REDOX MEMBRANE POTENTIALS 581
STUDIES ON THE SELECTIVE CARRIER-MEDIATED TRANSPORT OF PLUTONIUM(IV) IONS THROUGH TRIBUTYL PHOSPHATE/DODECANE LIQUID MEMBRANES 323

MEMBRANE MODULE
STUDIES ON CONCENTRATION POLARISATION IN A MEMBRANE MODULE 342

MEMBRANE SELECTIVITY
STUDIES OF INORGANIC PRECIPITATE MEMBRANE: EVALUATION OF MEMBRANE SELECTIVITY FROM BI-IONIC POTENTIAL AND CONDUCTIVITY MEASUREMENTS 439

MEMBRANE SYSTEMS
STUDIES ON ULTRAFILTRATION MEMBRANE SYSTEMS BASED ON CELLULOSIC AND POLYSULFONE POLYMERS 376

2- MERCAPTOBENZOTHIAZOLE
INVESTIGATIONS ON ELECTROCHEMICAL OXIDATION OF 2-MERCAPTOBENZOTHIAZOLE 237

MERCURY(II)
ANION EXCHANGE SELECTIVITIES OF ZN(II), CD(II),HG(II) AND BA(II) IN KI SOLUTIONS 285
KINETICS OF RELEASE OF DITHIZONE FROM MERCURY(II) DITHIZONATE BY TRIPHENYLPHOSPHINE 726
SYNTHESIS & MULTINUCLEAR NMR STUDIES OF SOME 2-(2'-PYRIDYL)PHENYL SUBSTITUTED ORGANOTELLURIUM(IV)/MERCURY(II) COMPOUNDS 460

METAL COMPLEXES
STUDIES ON BIOLOGICALLY RELEVANT TERNARY METAL COMPLEXES: PART VI - STABILITY OF TERNARY CO(II), NI(II),CU(II) AND ZN(II) COMPLEXES INVOLVING AMINOPOLYCARBOXYLIC ACIDS AND AMINO ACIDS 256

METAL DIRECTED CONDENSATION
METAL DIRECTED CONDENSATION OF ETHYLACETOACETATE WITH 1,6-DIAMINOHEXANE 642

METHANOL
CONVERSION OF METHANOL OVER METAL SALTS OF 12-MOLYBDOPHOSPHORIC ACID 921
SUBSTITUTED ALPO4-11 MOLECULAR SIEVES-SAPO-11 AND COAPO-11:SYNTHESIS, ACIDITY AND ALKYLATION OF TOLUENE WITH METHANOL 742

METHANOL-WATER MEDIUM
KINETICS OF OXIDATION OF THIOACETIC ACID BY METHYLENE BLUE IN METHANOL-WATER MEDIUM 728

L- METHIONINE
KINETICS OF THE REDUCTION OF HEXACHLOROIRIDATE(IV) BY L-METHIONINE IN AQUEOUS SOLUTIONS 975

PAGE

METHIONINE
MIXED LIGAND COMPLEXES OF PALLADIUM(II) AND PLATINUM(II) WITH METHIONINE AND PURINES 106

4- METHOXYBENZOYL HYDRAZIDE
HYDRAZONES DERIVED BY THE CONDENSATION OF 4-METHOXYBENZOYL HYDRAZIDE WITH SALICYLALDEHYDE, O-HYDROXYACETOPHENONE AND DIACETYLMONOXIME AS LIGANDS FOR COBALT (II & III) 937

5- METHOXYQUINIZARIN
TRIPLET STATE AND SEMIQUINONE FREE RADICAL OF 5-METHOXYQUINIZARIN: A LASER FLASH PHOTOLYSIS AND PULSE RADIOLYSIS STUDY 811

METHYL ACRYLATE
MICROSTRUCTURE AND GLASS TRANSITION TEMPERATURE DETERMINATION OF STYRENE-METHYL ACRYLATE COPOLYMERS BY C-13 NMR SPECTROSCOPY 903

METHYL ETHYL KETONE
VISCOMETRIC BEHAVIOUR OF BINARY SYSTEMS OF METHYL ETHYL KETONE WITH METHYLENE CHLORIDE, 1,2-DICHLOROETHANE, TRICHLOROETHENE, TETRACHLOROETHENE AND CYCLOHEXANE 626

METHYL METHACRYLATE
PHOTOPOLYMERIZATION OF METHYL METHACRYLATE USING DICHLOROACETIC ACID AND DIMETHYLANILINE COMBINATION AS PHOTOINITIATOR 71

METHYLENE BLUE
KINETICS OF OXIDATION OF THIOACETIC ACID BY METHYLENE BLUE IN METHANOL-WATER MEDIUM 728

METHYLENE CHLORIDE
VISCOMETRIC BEHAVIOUR OF BINARY SYSTEMS OF METHYL ETHYL KETONE WITH METHYLENE CHLORIDE, 1,2-DICHLOROETHANE, TRICHLOROETHENE, TETRACHLOROETHENE AND CYCLOHEXANE 626

MICELLAR EFFECTS
MICELLAR EFFECTS ON THE REACTIONS OF COMPLEX IONS IN SOLUTION: PART 12 - KINETICS OF REVERSIBLE COMPLEXATION OF OXALATOPENTAAMMINECOBALT(III) WITH NICKEL(II) AND IRON(III) IN THE PRESENCE OF ANIONIC MICELLES OF SODIUM DODECYL SULPHATE IN AQUEOUS MEDIUM 166

MICELLAR SOLUTIONS
REACTIONS IN MICELLAR SOLUTIONS: PART 13(1) - KINETICS AND MECHANISM OF THE REVERSIBLE COMPLEXATION OF IRON(III) BY (ALFA BETA -S)(TETRAETHYLENEPENTAMINE) (SALICYLATO)COBALT(III) AND CIS(AMMINE)BIS(ETHYLENEDIAMINE)(SALICYLATO)COBALT(III) IONS IN AQUEOUS ANIONIC MICELLAR MEDIUM 412

MICELLES
BINDING OF SURFACTANTS ONTO DNA AND SOLUBILIZATION OF DNA/SURFACTANT COMPLEX IN MICELLES 432

MICROEMULSIONS
MICROSTRUCTURE AND DYNAMICS OF W/O MICROEMULSIONS 630

MICROQUANTITIES
DETERMINATION OF MICROQUANTITIES OF FLUORIDE BY ION-EXCHANGE SPECTROPHOTOMETRY 134

MICROSTRUCTURAL CHARACTERISTICS
STRUCTURAL AND MICROSTRUCTURAL CHARACTERISTICS OF SOLID C-60 F79

PAGE

MICROSTRUCTURE
  MICROSTRUCTURE AND DYNAMICS OF W/O MICROEMULSIONS 630
  MICROSTRUCTURE AND GLASS TRANSITION TEMPERATURE DETERMINATION OF STYRENE-METHYL ACRYLATE COPOLYMERS BY C-13 NMR SPECTROSCOPY 903
MIKHAILOV O V
  COMPLEXATION REACTION ON THE IMMOBILIZED MATRICES: COMPLEXES OF IRON(III) HEXACYANOFERRATE(II) AND SOME N,O AND N,S CONTAINING LIGANDS FORMED ON A THIN GELATIN LAYER 54
MISHRA A SEE SHRIVASTAVA B D 929
MISHRA DILIP KUMAR
  KINETICS AND MECHANISM OF OXIDATION OF THIOCYANATE ION WITH PEROXOMONOPHOSPHORIC ACID 91
MISHRA K K SEE CHANSORIA K 728
MISHRA L
  CARRIER MEDIATED TRANSPORT THROUGH LIQUID MEMBRANES — STUDIES ON TRANSPORT OF NICKEL IONS USING TETRADENTATE THIOIMINATO SCHIFF BASE LIGANDS AS CARRIERS 393
MISHRA LALLAN
  METAL DIRECTED CONDENSATION OF ETHYLACETOACETATE WITH 1,6-DIAMINOHEXANE 642
  SYNTHESIS AND CHARACTERIZAION OF NI(II), CU(II) AND ZN(II) COMPLEXES WITH A TETRADENTATE THIOIMINATO SCHIFF BASE LIGAND 195
MISHRA P C SEE SANTHOSH C 558
MISHRA S K SEE PANIGRAHI G P 710
MISHRA SHUDDHODAN P
  HOT ATOM CHEMISTRY IN OXYANION TARGETS; PART V - PRE-ACTIVATION HEAT TREATMENT STUDY OF RECOIL MN-56 IN PERMANGANATES 651
MISRA B M SEE THOMAS K C 376
MISRA S K SEE SHUKLA J P 323
MITRA A
  STUDIES ON INTERACTION OF CATIONIC DYE WITH BACTERIAL ACIDIC POLYSACCHARIDE 77
MITTAL J P SEE PAL H 811
  SEE PALIT D K F46
MIXED LIGAND COMPLEX FORMATION
  MIXED LIGAND COMPLEX FORMATION OF CU2+ ION WITH 6-AMINOPENICILLANIC ACID IN THE PRESENCE OF BIPYRIDINE, GLYCINE AND ADENINE 478
MIXED LIGAND COMPLEXES
  MIXED LIGAND COMPLEXES OF PALLADIUM(II) AND PLATINUM(II) WITH METHIONINE AND PURINES 106
  MIXED LIGAND COMPLEXES OF PLATINUM(II) WITH HISTIDINE AS PRIMARY LIGAND AND PURINES, PYRIMIDINES AND NUCLEOSIDES AS SECONDARY LIGANDS 28
  STUDIES ON COPPER(II) AND ZINC(II) MIXED LIGAND COMPLEXES INVOLVING SOME POTENTIALLY TRIDENTATE LIGANDS 865
  SYNTHESIS, ELECTRONIC, INFRARED AND MOSSBAUER SPECTROSCOPIC STUDIES OF MIXED LIGAND COMPLEXES OF MONO- AND BIS(N,N'-DIETHYLDITHIOCARBAMATO)IRON(III) WITH O,N AND S CONTAINING CHELATING LIGANDS AND THEIR THERMAL DECOMPOSITION 849
MIXED SOLVENTS
  THIONINE-TRIETHYLAMINE INTERACTIONS IN MIXED SOLVENTS 83
MOBILE CARRIER
  MACROCYCLE-FACILITATED TRANSPORT OF URANYL IONS ACROSS SUPPORTED LIQUID MEMBRANES USING DICYCLOHEXANO-18-CROWN-6 AS MOBILE CARRIER 373
MOHAMMED SK SAZID SEE DASH ANADI C 166
  412
MOHANALINGAM K
  FIRST ORDER HYPERPOLARIZABILITIES OF PUSH-PULL OLEFINS 518
MOHAPATRA R
  SEPARATION OF CO(II)-ZN(II), CO(II)-MN(II) AND ZN(II)-MN(II) SYSTEMS FROM THEIR BINARY SOLUTIONS THROUGH SUPPORTED LIQUID MEMBRANE CONTAINING ORGANOPHOSPHORUS ACID AS EXTRACTANT 389
MOKAL VIJAYA B SEE JAIN VIMAL K 861
MOLAR EXCESS GIBBS FREE ENERGY OF MIXING
  THERMODYNAMICS OF BINARY MIXTURES OF NON-ELECTROLYTES: MOLAR EXCESS GIBBS FREE ENERGY OF MIXING 398
MOLECULAR INTERACTIONS
  TOPOLOGICAL AND THERMODYNAMIC INVESTIGATIONS OF MOLCULAR INTERACTIONS IN SOME LOWER AMIDES + WATER MIXTURES 619
MOLECULAR PROPERTIES
  A BOND ORBITAL APPROACH TO THEORETICAL STUDIES OF MOLECULAR PROPERTIES FROM A FULLY LOCALISED SCF METHOD 1
MOLECULAR SIEVES
  SUBSTITUTED ALPO4-11 MOLECULAR SIEVES-SAPO-11 AND COAPO-11:SYNTHESIS, ACIDITY AND ALKYLATION OF TOLUENE WITH METHANOL 742
  SYNTHESIS AND CHARACTERIZATION OF MOLECULAR SIEVES WITH VFI TOPOLOGY AND THEIR TRANSFORMATION TO ALPO4-8 737
MOLECULAR SPECIES DESIGN
  DESIGN OF MOLECULAR SPECIES FOR SYNTHESIS OF ADVANCED CERAMIC MATERIALS 492
MOLECULAR STRUCTURE
  CRYSTAL AND MOLECULAR STRUCTURE OF AQUOETHYLENEDIAMINE-TETRAACETATORUTHENIUM(III) AND ITS EXTRAORDINARY LABILITY TOWARDS SUBSTITUTION 303
  SELECTION OF BASIS SETS IN AB INITIO STUDIES OF MOLECULAR STRUCTURE 550
MOLECULAR TRANSPORT
  MOLECULAR TRANSPORT OF BINARY LIQUID MIXTURES INTO EPDM AND NBR MEMBRANES AT 25 DEG C 328
MOLYBDENUM
  SPECTROPHOTOMETRIC DETERMINATION OF MOLYBDENUM IN STEEL 460
MOLYBDENUM(V AND VI)
  SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES 110
MOLYBDENUM(V)
  SYNTHESIS AND CHARACTERIZATION OF OXOMOLYBDENUM(V) COMPLEX WITH DITHIOOXAMIDE 806
MOLYBDENUM(VI)

PAGE

COMPLEXES OF CHROMIUM(III), COBALT(II), NICKEL(II), COPPER(II) & MOLYBDENUM(VI) WITH INDANE 1,3-DIONE-2-ISONICOTINOYLHYDRAZONE 58
LIQUID-LIQUID EXTRACTION OF MOLYBDENUM(VI) FROM ASCORBATE SOLUTION WITH HIGH MOLECULAR WEIGHT AMINES 265
12- MOLYBDOPHOSPHORIC ACID
CONVERSION OF METHANOL OVER METAL SALTS OF 12-MOLYBDOPHOSPHORIC ACID 921
MOLYBDOTUNGSTATE
THE EFFICACY OF ANTIMONY(III) MOLYBDOTUNGSTATE AS AN EXCHANGER FOR THE SEPARATION OF LEAD 136
MONO-HYDROXYBENZOATE SALTS
STUDIES ON SOLUTE-SOLVENT INTERACTIONS IN AQUEOUS SOLUTION OF ISOMERIC MONO-HYDROXYBENZOATE SALTS 232
MONOALCOHOLS
CORRELATION OF SOME PHYSICAL PROPERTIES OF ALIPHATIC MONOALCOHOLS AND AMINES BY GRAPH THEORY 141
MONOPYRIDINE IODINE(I) CHLORIDE
MONOPYRIDINE IODINE(I) CHLORIDE IN ETHANOL AS A NEW IODINATING REAGENT FOR METAL BETA-DIKETONES AND KETONEIMINES 702
MONOSACCHARIDES
KINETICS AND MECHANISM OF OXIDATION OF MONOSACCHARIDES BY SODIUM-N-BROMOBENZENESULPHONAMIDE IN ALKALINE MEDIUM 838
KINETICS OF OXIDATION OF SOME MONOSACCHARIDES BY PYRIDINIUM CHLOROCHROMATE (PCC) 97
MORE P S
EXTRACTIVE AND SPECTROPHOTOMETRIC DETERMINATION OF CO(II) AT TRACE LEVELS USING ISONITROSO-4-METHYL-2-PENTANONE 984
MORPHOLINE N-THIOHYDRAZONES
SYNTHESIS AND CHARACTERIZATION OF COMPLEXES OF NICKEL(II), COPPER(II), COBALT(II) AND COBLAT(III) WITH MORPHOLINE N-THIOHYDRAZONES FORMED FROM SALICYLALDEHYDE AND 2-HYDROXYACETOPHENONE 34
MOSSBAUER SPECTROSCOPIC STUDIES
SYNTHESIS, ELECTRONIC, INFRARED AND MOSSBAUER SPECTROSCOPIC STUDIES OF MIXED LIGAND COMPLEXES OF MONO- AND BIS(N,N'-DIETHYLDITHIOCARBAMATO)IRON(III) WITH O,N AND S CONTAINING CHELATING LIGANDS AND THEIR THERMAL DECOMPOSITION 849
MOSSBAUER STUDIES
MOSSBAUER STUDIES ON TIN BEARING CATALYSTS USED FOR HYDROGENATION OF COAL (LETTER TO EDITOR) 482
MUKHERJEE DEB K
HOMOGENEOUS CATALYTIC HYDROGENATION OF ORGANIC COMPOUNDS USING ORTHOMETALLATE SCHIFF BASE COMPLEXES OF PALLADIUM(II) 243
MUKHERJEE G N
MIXED LIGAND COMPLEX FORMATION OF CU2+ ION WITH 6-AMINOPENICILLANIC ACID IN THE PRESENCE OF BIPYRIDINE, GLYCINE AND ADENINE 478
MUKHERJEE GAURI SANKAR SEE GHOSH PREMAMOY 71
MUKHERJEE T SEE PAL H 811
MURALI MOHAN K SEE TAQUI KHAN BADAR 28, 106
MURTHY A S N
ELECTROCHEMICAL STUDIES AT ULTRAMICROELECTRODES 633
MURTHY V R K SEE VENKATARAMAN D 270
MUTHULAKSHMI B SEE PILLAY M KRISHNA 427
N,O/N,S LIGANDS
COMPLEXATION REACTION ON THE IMMOBILIZED MATRICES: COMPLEXES OF IRON(III) HEXACYANOFERRATE(II) AND SOME N,O AND N,S CONTAINING LIGANDS FORMED ON A THIN GELATIN LAYER 54
N-DONORS
STUDIES ON THE COMPLEXES OF 3-(O-CARBOXYPHENYL)-1-PHENYLTRIAZENE 1-OXIDE:PART II - NICKEL(II) COMPLEX AND ITS REACTION PRODUCTS WITH SOME NEUTRAL N-DONORS 260
N2S2 DONOR LIGANDS
SYNTHESIS, CHARACTERIZATION AND REACTIONS OF DIORGANOTIN(IV) COMPLEXES WITH SOME N2S2 DONOR LIGANDS DERIVED FROM 2-AMINOTHIOPHENOL 205
NAFION-117
THERMODYNAMIC EQUILIBRIUM CONSTANTS OF ALKALI METAL ION-HYDROGEN ION EXCHANGES AND RELATED SWELLING FEEE ENERGIES IN PERFLUOROSULPHONATE IONOMER MEMBRANE (NAFION-117) IN AQUEOUS MEDIUM 317
NAGANNAGOWDA G A SEE RAO C N R F5
NAGAPPA A N SEE SRIVASTAVA R C 533
NAGARAJA K S SEE LAKSHMANAN VASANTHI 806, 896
NAGARAJAN R SEE RAO C N R F5
SEE VIJAYAKRISHNAN V F22
NAGESHWARA RAO CH V
A STUDY ON ION-SOLVENT INTERACTIONS OF SOME TETRA-ALKLYL AND MULTICHARGED ELECTROLYTES IN WATER AT DIFFERENT TEMPERATURES 716
NAGESWARA RAO P SEE LAXMA REDDY K 970
NAIR C K K SEE KUNJAPPU JOY T 432
NAIR M K T SEE ANIL KUMAR 373
NAIR S M K SEE JANARDANAN C 136
NAIXIANG WEI SEE RONGSHENG LI 449
NANDA RABINDRA K SEE DASH ANADI C 747, 832
NANDAN DEOKI SEE IYER SITA T 317
NANJE GOWDA N M SEE BALAJI RAO S B 463
1,4- NAPHTHAQUINONE
ORGANIC SOLID STATE REACTIVITY - REACTION BETWEEN ALPHA-NAPHTHOL AND 1,4-NAPHTHAQUINONE 608
ALPHA- NAPHTHOL
ORGANIC SOLID STATE REACTIVITY - REACTION BETWEEN ALPHA-NAPHTHOL AND 1,4-NAPHTHAQUINONE 608
NAQVI M I SEE SINGH P P 586
NARASIMHA MURTHY V SEE RAO C N R F5
NARENDER KUMAR G SEE KOTESWAR RAO A 256
NARSA GOUD G SEE TAQUI KHAN BADAR 28, 106
NASIR MOHD IBRAHIM
ANION EXCHANGE SELECTIVITIES OF ZN(II), CD(II),HG(II) AND BA(II) IN KI SOLUTIONS 285
CATION EXCHANGE CHROMATOGRAPHIC SEPARATION OF A NUMBER OF METAL IONS IN AMMONIUM IODIDE MEDIA 901
NATH SOMDATTA SEE CHATTARAJ P K 954
NAYAR ANJALI
DETERMINATION OF MICROQUANTITIES OF

INDEX

PAGE

FLUORIDE BY ION-EXCHANGE SPECTROPHOTOMETRY 134
NEODYMIUM(III)
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS 855
NICKEL
A PHOTOELECTRON SPECTROSCOPIC STUDY OF THE INTERACTION OF OXYGEN,NITROGEN AND TRANSITION METALS WITH C-60 FILMS F22
CARRIER MEDIATED TRANSPORT THROUGH LIQUID MEMBRANES - STUDIES ON TRANSPORT OF NICKEL IONS USING TETRADENTATE THIOIMINATO SCHIFF BASE LIGANDS AS CARRIERS 393
EFFECT OF PHOTODEPOSITION OF NICKEL ON THE PHOTOCATALYTIC, PHOTOELECTROCHEMICAL AND SURFACE PROPERTIES OF CDS 6
HETEROBINUCLEAR COMPLEX FORMATION BY IMINODIACETIC ACID AND DL-2,3-DIAMINOPROPIONIC ACID WITH SOME TRANSITION METAL IONS - PART I 760
NICKEL(II)
COMPLEXES OF CHROMIUM(III), COBALT(II), NICKEL(II), COPPER(II) & MOLYBDENUM(VI) WITH INDANE 1,3-DIONE-2-ISONICOTINOYLHYDRAZONE 58
COMPLEXES OF NI(II), PD(II) AND PT(II) WITH S-TRIAZINE DERIVATIVES 160
COMPLEXING BEHAVIOUR OF BI- AND TERDENTATE LIGANDS WITH SOME BIVALENT METAL ION 199
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS 855
KINETCIS AND MECHANISM OF COMPLEX FORMATION BETWEEN O-BONDED (GLYCINATO)PENTAAMMINECOBALT(III) AND (GLYCINATO)TETRAETHYLENE PENTAMINECOBALT(III) IONS WITH NICKEL(II) IN AQUEOUS MEDIUM 678
MICELLAR EFFECTS ON THE REACTIONS OF COMPLEX IONS IN SOLUTION: PART 12 - KINETICS OF REVERSIBLE COMPLEXATION OF OXALATOPENTAAMMINECOBALT(III) WITH NICKEL(II) AND IRON(III) IN THE PRESENCE OF ANIONIC MICELLES OF SODIUM DODECYL SULPHATE IN AQUEOUS MEDIUM 166
PERTRACTION OF COPPER(II) IN THE PRESENCE OF COBALT(II), NICKEL(II), MANGANESE(II) AND IRON(II) USING SUPPORTED LIQUID MEMBRANE 379
STUDIES ON BIOLOGICALLY RELEVANT TERNARY METAL COMPLEXES: PART VI - STABILITY OF TERNARY CO(II), NI(II),CU(II) AND ZN(II) COMPLEXES INVOLVING AMINOPOLYCARBOXYLIC ACIDS AND AMINO ACIDS 256
STUDIES ON THE COMPLEXES OF 3-(O-CARBOXYPHENYL)-1-PHENYLTRIAZENE 1-OXIDE:PART II - NICKEL(II) COMPLEX AND ITS REACTION PRODUCTS WITH SOME NEUTRAL N-DONORS 260
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES 110
SYNTHESIS AND CHARACTERIZAION OF NI(II), CU(II) AND ZN(II) COMPLEXES WITH A TETRADENTATE THIOIMINATO SCHIFF BASE LIGAND 195
SYNTHESIS AND CHARACTERIZATION OF COMPLEXES OF NICKEL(II), COPPER(II), COBALT(II) AND COBLAT(III) WITH MORPHOLINE N-THIOHYDRAZONES FORMED FROM SALICYLALDEHYDE AND 2-HYDROXYACETOPHENONE 34
SYNTHESIS AND CHARACTERIZATION OF CO(II) AND NI(II) COMPLEXES OF 2-SUBSTITUTED BENZIMIDAZOLES 463
SYNTHESIS, CHARACTERIZATION AND FUNGITOXICITY OF CU(II), NI(II), ZN(II), CO(II), FE(III) AND MN(III) CHELATES WITH (5-PHENYL-1,3,4-OXADIAZOL-2-YL)-N-BENZOYL DITHIOCARBAMATE 472
NIGAM ILA SEE BAGUL A G 661
NITRATE ION
PERMSELECTIVITY OF ACETATE ION TO NITRATE ION IN ELECTRODIALYSIS OF AQUEOUS SOLUTIONS 369
NITRITE
KINETICS OF OXIDATION OF NITRITE BY PEROXOMONOSULPHATE 723
NITROGEN
A PHOTOELECTRON SPECTROSCOPIC STUDY OF THE INTERACTION OF OXYGEN,NITROGEN AND TRANSITION METALS WITH C-60 FILMS F22
NITROGEN CHEMISORPTION
STRUCTURE SENSITIVE NITROGEN CHEMISORPTION ON SUPPORTED RUTHENIUM CATALYSTS 436
NITROGEN DERIVATIVES
NITROGEN DERIVATIVES OF C-60 AND C-70 : INTERACTION OF FULLERENES WITH NITROGEN IN GAS PHASE AND WITH AMINES IN SOLUTION PHASE F27
NITROTOLUENE
EXCESS MOLAR VOLUMES OF BINARY MIXTURES CONTAINING NITROTOULENE AT 308.15 K 721
NMR STUDIES
SYNTHESIS & MULTINUCLEAR NMR STUDIES OF SOME 2-(2'-PYRIDYL)PHENYL SUBSTITUTED ORGANOTELLURIUM(IV)/MERCURY(II) COMPOUNDS 460
NOBLE GAS ATOM COLLISIONS
NONLINEAR DYNAMICS IN PROTON NOBLE GAS ATOM COLLISIONS 483
NON-AQUEOUS SOLVENTS
SOLVATION BEHAVIOUR OF CUPRIC CHLORIDE IN NON-AQUEOUS SOLVENTS 227
NON-CYCLIC SYNTHETIC IONOPHORES
TRANSPORT OF ALKALI METAL CATIONS THROUGH LIQUID MEMBRANE USING NON-CYCLIC SYNTHETIC IONOPHORES 383
NON-ELECTROLYTES
THERMODYNAMICS OF BINARY MIXTURES OF NON-ELECTROLYTES: MOLAR EXCESS GIBBS FREE ENERGY OF MIXING 398
NONLINEAR DYNAMICS
NONLINEAR DYNAMICS IN PROTON NOBLE GAS ATOM COLLISIONS 483
NONSTOICHIOMETRIC RARE EARTH OXIDES
REACTIVITY AND ELECTRIC TRANSPORT OF NONSTOICHIOMETRIC RARE EARTH OXIDES 601
NUCLEAR CHLORINATION
KINETICS OF NUCLEAR CHLORINATION OF SUBSTITUTED PHENYL ACETATES BY TRICHLOROISOCYANURIC ACID 978
NUCLEOSIDES
MIXED LIGAND COMPLEXES OF PLATINUM(II)

PAGE

WITH HISTIDINE AS PRIMARY LIGAND AND PURINES, PYRIMIDINES AND NUCLEOSIDES AS SECONDARY LIGANDS 28
O,N LIGANDS
SYNTHESIS, ELECTRONIC, INFRARED AND MOSSBAUER SPECTROSCOPIC STUDIES OF MIXED LIGAND COMPLEXES OF MONO- AND BIS(N,N'-DIETHYLDITHIOCARBAMATO)IRON(III) WITH O,N AND S CONTAINING CHELATING LIGANDS AND THEIR THERMAL DECOMPOSITION 849
OFORKA N C SEE OGWUEGBU M O C 981
OGWUEGBU M O C
KINETIC STUDIES ON THE SOLVENT EXTRACTION OF IRON(III) FROM AQUEOUS SOLUTION WITH 1-PHENYL-3-METHYL-4-(P-NITROBENZOYL)PYRAZOL-5-ONE DISSOLVED IN CHLOROFORM: RATE OF FORWARD EXTRACTION 981
OH-APATITE
FLUORIDATION OF OH-APATITE ON INTERACTION WITH SODIUM MONOFLUORO PHOSPHATE 276
OLEATE
A NEW CATALYST FOR THE PREPARATION OF OLEATE OF GLYCERIN 449
OLEFIN EPOXIDATION
OLEFIN EPOXIDATION USING IRON(III)SCHIFF BASE COMPLEXES AS CATALYST 785
OLEFINS
FIRST ORDER HYPERPOLARIZABILITIES OF PUSH-PULL OLEFINS 518
OLIGOMERIC MANGANESE(II)
SYNTHESIS AND EPR OF OLIGOMERIC MANGANESE(II) COMPLEXES OF A TRIPODAL LIGAND TRIS(2-BENZIMIDAZOLYL METHYLAMINE AND ITS N-ETHYL DERIVATIVES 666
ORGANIC CHEMISTRY
ORGANIC CHEMISTRY WITH BUCKMINSTERFULLERENE(C-60) F36
ORGANIC DILUENTS
SOLVENT EXTRACTION EQUILIBRIA OF PALLADIUM(II) COMPLEX WITH 5,8-DIETHYL-7-HYDROXYDODECAN-6-ONE OXIME IN SOME ORGANIC DILUENTS 116
ORGANIC SOLID STATE REACTIVITY
ORGANIC SOLID STATE REACTIVITY — REACTION BETWEEN ALPHA-NAPHTHOL AND 1,4-NAPHTHAQUINONE 608
ORGANIC SOLVENTS
EXTRACTION OF FULLERENES IN ORGANIC SOLVENTS AND THE DEVELOPMENT OF SUPERIOR ISOLATION PROCEDURES F32
ORGANOANTIMONY(V)
STUDIES ON BETA-DIKETONATE AND BETA-DIKETOESTER DERIVATIVES OF TRI-AND TETRA-ORGANOANTIMONY(V) 797
ORGANOBORON COMPLEXES
SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF SOME ORGANOBORON COMPLEXES WITH NITROGEN DONOR AZOMETHINES 963
ORGANOMERCURY(II)
STUDIES ON ORGANOMERCURY(II)-PURINE COMPLEXES 972
ORGANOMETALLICS
SIGMA-BONDED ORGANOMETALLICS OF IRON AND THEIR FACILE CONVERSION INTO PI COMPLEXES 699
ORGANOPHOSPHINE DERIVATIVES
PHYSICOCHEMICAL INVESTIGATION OF THE REACTIONS OF SOME ORGANOPHOSPHINE DERIVATIVES WITH CYANOGEN HALIDES 951
ORGANOPHOSPHORUS

PAGE

A URANYL SELECTIVE ELECTRODE BASED ON NEUTRAL BIDENTATE ORGANOPHOSPHORUS COMPOUNDS 12
SEPARATION OF CO(II)-ZN(II), CO(II)-MN(II) AND ZN(II)-MN(II) SYSTEMS FROM THEIR BINARY SOLUTIONS THROUGH SUPPORTED LIQUID MEMBRANE CONTAINING ORGANOPHOSPHORUS ACID AS EXTRACTANT 389
ORGANOTELLURIUM(IV)
SYNTHESIS & MULTINUCLEAR NMR STUDIES OF SOME 2-(2'-PYRIDYL)PHENYL SUBSTITUTED ORGANOTELLURIUM(IV)/MERCURY(II) COMPOUNDS 460
OSMOTIC SYSTEMS
TRANSPORT OF WATER THROUGH CELLULOSE DERIVATIVES USED AS THE COVER OF OSMOTIC SYSTEMS FOR DRUG RELEASE 366
OSTERICHER F SEE SHARMA N K 658
OXAL PROCESS
SEPARATION OF THORIUM FROM RADIOACTIVE LIQUID WASTE BY OXAL PROCESS 808
OXALATOPENTAAMMINECOBALT(III)
MICELLAR EFFECTS ON THE REACTIONS OF COMPLEX IONS IN SOLUTION: PART 12 — KINETICS OF REVERSIBLE COMPLEXATION OF OXALATOPENTAAMMINECOBALT(III) WITH NICKEL(II) AND IRON(III) IN THE PRESENCE OF ANIONIC MICELLES OF SODIUM DODECYL SULPHATE IN AQUEOUS MEDIUM 166
OXIDATION KINETICS
KINETICS OF OXIDATION OF BIS(2,2',6',2"-TERPYRIDINE)IRON(II) BY CERIUM(IV) 125
KINETICS OF OXIDATION OF DIGLYCINE BY BROMAMINE-B IN PERCHLORIC ACID MEDIUM 752
KINETICS OF OXIDATION OF NITRITE BY PEROXOMONOSULPHATE 723
KINETICS OF OXIDATION OF PARA- AND META-SUBSTITUTED BENZALDEHYDES BY PYRIDINIUM CHLOROCHROMATE 46
KINETICS OF OXIDATION OF SOME MONOSACCHARIDES BY PYRIDINIUM CHLOROCHROMATE (PCC) 97
KINETICS OF OXIDATION OF THIOACETIC ACID BY METHYLENE BLUE IN METHANOL-WATER MEDIUM 728
THE STOICHIOMETRY AND KINETICS OF OXIDATION OF 1,4-BENZENEDIOL BY DIAQUOTETRAKIS(2,2'-BIPYRIDINE)-MU-OXODIRUTHENIUM(III) CATION IN PERCHLORATE MEDIUM 943
OXIDATION KINETICS AND MECHANISM
KINETICS AND MECHANISM OF OXIDATION OF THIOCYANATE ION WITH PEROXOMONOPHOSPHORIC ACID 91
KINETICS AND MECHANISM OF OXIDATION OF THIOSEMICARBAZONES BY ACID BROMATE 175
KINETICS AND MECHANISM OF OXIDATION BY METAL IONS: PART XV—OXIDATION OF GLYOXALATE ION BY ALKALINE OSMIUM TETROXIDE 788
KINETICS AND MECHANISM OF OXIDATION OF MONOSACCHARIDES BY SODIUM-N-BROMOBENZENESULPHONAMIDE IN ALKALINE MEDIUM 838
KINETICS AND MECHANISM OF OXIDATION OF GAMMA-OXOACIDS BY ACID PERMANGANATE 845
OXO COMPLEXES
OXYGEN ATOM TRANSFER REACTIONS BY RU(V) OXO COMPLEXES: MODELS BY CYTOCHROME P450 OXIDASE 146
OXOMOLYBDENUM(V)

	PAGE
SYNTHESIS AND CHARACTERIZATION OF OXOMOLYBDENUM(V) COMPLEX WITH DITHIOOXAMIDE	806
OXOVANADIUM(V)	
STUDIES ON SOME SIMPLE AND MIXED LIGATED OXOVANADIUM(V) COMPLEXES OF HYDROXAMIC ACIDS	202
OXYANION TARGETS	
HOT ATOM CHEMISTRY IN OXYANION TARGETS; PART V - PRE-ACTIVATION HEAT TREATMENT STUDY OF RECOIL MN-56 IN PERMANGANATES	651
OXYGEN	
A PHOTOELECTRON SPECTROSCOPIC STUDY OF THE INTERACTION OF OXYGEN,NITROGEN AND TRANSITION METALS WITH C-60 FILMS	F22
OXYGEN ATOM TRANSFER REACTIONS	
OXYGEN ATOM TRANSFER REACTIONS BY RU(V) OXO COMPLEXES: MODELS BY CYTOCHROME P450 OXIDASE	146
OXYGEN-MEDIATED SPECTRAL OSCILLATIONS	
OXYGEN-MEDIATED SPECTRAL OSCILLATIONS IN BIOMOLECULES AND IMPORTANCE OF COEXISTING TAUTOMERS: CASE OF GUANINE	558
PACI S SEE AUDINOS R	355
PADMA MALAR E J SEE BHATTACHARYYA ANURADHA	553
PAL H	
TRIPLET STATE AND SEMIQUINONE FREE RADICAL OF 5-METHOXYQUINIZARIN: A LASER FLASH PHOTOLYSIS AND PULSE RADIOLYSIS STUDY	811
PALANIVELU C B SEE PRABHAKAR L D	704
PALIT BIMAN K SEE MUKHERJEE DEB K	243
PALIT D K	
PHOTOPHYSICAL STUDIES ON BUCKMINSTERFULLERENE:C-60	F46
SEE PAL H	811
PALLADIUM	
COLUMN PRECONCENTRATION OF PALLADIUM USING PROTOCATECHUIC ACID AND TETRADECYLDIMETHYLBENZYLAMMONIUM-IODIDE-NAPHTHALENE AS AN ADSORBENT	67
SEPARATION OF PLATINUM AND PALLADIUM USING A CHELATING RESIN CONTAINING QUINALDINIC ACID AMIDE GROUP	735
PALLADIUM(II)	
COMPLEXES OF NI(II), PD(II) AND PT(II) WITH S-TRIAZINE DERIVATIVES	160
HOMOGENEOUS CATALYTIC HYDROGENATION OF ORGANIC COMPOUNDS USING ORTHOMETALLATE SCHIFF BASE COMPLEXES OF PALLADIUM(II)	243
MIXED LIGAND COMPLEXES OF PALLADIUM(II) AND PLATINUM(II) WITH METHIONINE AND PURINES	106
SOLVENT EXTRACTION EQUILIBRIA OF PALLADIUM(II) COMPLEX WITH 5,8-DIETHYL-7-HYDROXYDODECAN-6-ONE OXIME IN SOME ORGANIC DILUENTS	116
SYNTHESIS, CHARACTERIZATION AND CYTOTOXICITY OF (3,4-DIAMINOBENZOIC ACID)-HALOPLATINUM(II)/PALLADIUM(II)	102
PANDA H P	
KINETICS OF NUCLEAR CHLORINATION OF SUBSTITUTED PHENYL ACETATES BY TRICHLOROISOCYANURIC ACID	978
PANDEY ASHOK KUMAR SEE MISHRA LALLAN	195
PANDEY H N	
SYNTHESIS AND EPR OF OLIGOMERIC MANGANESE(II) COMPLEXES OF A TRIPODAL LIGAND TRIS(2-BENZIMIDAZOLYL METHYLAMINE AND ITS N-ETHYL DERIVATIVES	666
PANDEY P C	
ION-SELECTIVE ELECTRODE BASED ON DINITROPHENOL-ALANINE CONJUGATE	639
PANDEY VIVEK SEE PANDEY P C	639
PANIGRAHI G P	
INFLUENCE OF SODIUM LAURYL SULFATE MICELLES ON THE OXIDATION OF MALONIC ACID BY CHROMIC ACID	710
PARAMESWARI A SEE SANTHANALAKSHMI J	630
PARANJAPE D V SEE GANGULY P	F42
PARDHASARADHI V	
KINETICS AND MECHANISM OF OXIDATION OF THIOSEMICARBAZONES BY ACID BROMATE	175
PARMAR JAYANT S SEE PATEL CHETAN G	386
PARMAR M L	
A STUDY ON ION-SOLVENT INTERACTIONS OF SOME TETRA-ALKLYL AND MULTICHARGED ELECTROLYTES IN WATER AT DIFFERENT TEMPERATURES	716
PASTAPUR S M	
BELOUSOV-ZHABOTINSKII REACTION WITH ACETONE ALONE AS ORGANIC SUBSTRATE IN THE PHOSPHORIC ACID MEDIUM	182
PASTOR M PASCUAL SEE DOMENECH R GARCIA	423
PATEL CHETAN G	
NEW CATION EXCHANGER OF POLY(N-SUBSTSITUTED PHENYLMALEIMIDE) TYPE	386
PATEL DINESH K SEE PATEL CHETAN G	386
PATEL PRAMOD	
USE OF ZIRCONIUM TUNGSTATE IN ACID CATALYSIS: SOME ESTERIFICATION REACTIONS	803
PATHAK ASHISH K SEE SHUKLA P R	205
PATIL K R SEE GANGULY P	F42
PAUL PARIMAL SEE TAQUI KHAN M M	17
PAUL PRADIP C SEE CHAUDHURI MIHIR K	466
PENDANT GROUP	
HYDROGEN BONDING OR TRANSIENT COORDINATION OF PENDANT GROUP: CAUSE FOR LABILITY IN LIGAND SUBSTITUTION REACTION OF AMINOPOLYCARBOXYLATORUTHENIUM (III) COMPLEXES	152
PERCHLORATE MEDIUM	
THE STOICHIOMETRY AND KINETICS OF OXIDATION OF 1,4-BENZENEDIOL BY DIAQUOTETRAKIS(2,2'-BIPYRIDINE)-MU-OXODIRUTHENIUM(III) CATION IN PERCHLORATE MEDIUM	943
PERCHLORIC ACID	
KINETICS OF OXIDATION OF DIGLYCINE BY BROMAMINE-B IN PERCHLORIC ACID MEDIUM	752
PERFLUOROSULPHONATE IONOMER MEMBRANE	
THERMODYNAMIC EQUILIBRIUM CONSTANTS OF ALKALI METAL ION-HYDROGEN ION EXCHANGES AND RELATED SWELLING FEEE ENERGIES IN PERFLUOROSULPHONATE IONOMER MEMBRANE (NAFION-117) IN AQUEOUS MEDIUM	317
PERMANGANATE	
HOT ATOM CHEMISTRY IN OXYANION TARGETS; PART V - PRE-ACTIVATION HEAT TREATMENT STUDY OF RECOIL MN-56 IN PERMANGANATES	651
OXIDATIONS WITH PERMANGANATE IN A STRONG ALKALINE MEDIUM: CALCULATION OF DEPROTONATION CONSTANT	417
PERMEABILITY PROPERTIES	
PERMEABILITY PROPERTIES OF POLYELECTROLYTE COMPLEXES FROM CARBOXYMETHYLCELLULOSE AND POLY(2-VINYL-N-METHYLPYRIDINIUM IODIDE)	334
PERMEATION	
PERMEATION THROUGH URINARY BLADDER	

PAGE

MEMBRANES 565
PERMSELECTIVITY
PERMSELECTIVITY OF ACETATE ION TO NITRATE ION IN ELECTRODIALYSIS OF AQUEOUS SOLUTIONS 369
PEROXOMONOPHOSPHORIC ACID
KINETICS AND MECHANISM OF OXIDATION OF THIOCYANATE ION WITH PEROXOMONOPHOSPHORIC ACID 91
PEROXOMONOSULPHATE
KINETICS OF OXIDATION OF NITRITE BY PEROXOMONOSULPHATE 723
PEROXOVANADATES(V)
COMPLEX PEROXOVANADATES(V) CONTAINING CHELATED CYSTEINATE AS THE CO-LIGAND: SYNTHESIS AND SPECTROSCOPIC STUDIES 466
PETER AMALA DHAS T SEE MISHRA DILIP KUMAR 91
PETROVIC VESNA SEE GUTMAN IVAN 647
PHENACYLBROMIDE
KINETICS OF REACTION OF TRIETHYLAMMONIUM CARBOXYLATES WITH ALFA-HALOGENO CARBONYL COMPOUNDS IN ORGANIC SOLVENTS:PART 3 — EFFECT OF SOLVENTS ON THE REACTION OF PHENACYLBROMIDE WITH TRIETHYLAMMONIUM ACETATE 427
PHENOL
REMOVAL OF PHENOL FROM REFINERY WASTE WATERS USING LIQUID SURFACTANT MEMBRANES IN A CONTINUOUS COLUMN CONTACTOR 361
PHENYL ACETATES
KINETICS OF NUCLEAR CHLORINATION OF SUBSTITUTED PHENYL ACETATES BY TRICHLOROISOCYANURIC ACID 978
5- PHENYL-1,3,4-OXADIAZOL-2-YL)-N-BENZOYL DITHIOCARBAMATE
SYNTHESIS, CHARACTERIZATION AND FUNGITOXICITY OF CU(II), NI(II), ZN(II), CO(II), FE(III) AND MN(III) CHELATES WITH (5-PHENYL-1,3,4-OXADIAZOL-2-YL)-N-BENZOYL DITHIOCARBAMATE 472
1- PHENYL-3-METHYL-4-(P-NITROBENZOYL)PYRAZOL-5-ONE
KINETIC STUDIES ON THE SOLVENT EXTRACTION OF IRON(III) FROM AQUEOUS SOLUTION WITH 1-PHENYL-3-METHYL-4-(P-NITROBENZOYL)PYRAZOL-5-ONE DISSOLVED IN CHLOROFORM: RATE OF FORWARD EXTRACTION 981
PHOSPHORIC ACID MEDIUM
BELOUSOV-ZHABOTINSKII REACTION WITH ACETONE ALONE AS ORGANIC SUBSTRATE IN THE PHOSPHORIC ACID MEDIUM 182
PHOTOCATALYTIC PROPERTIES
EFFECT OF PHOTODEPOSITION OF NICKEL ON THE PHOTOCATALYTIC, PHOTOELECTROCHEMICAL AND SURFACE PROPERTIES OF CDS 6
PHOTODEPOSITION
EFFECT OF PHOTODEPOSITION OF NICKEL ON THE PHOTOCATALYTIC, PHOTOELECTROCHEMICAL AND SURFACE PROPERTIES OF CDS 6
PHOTOELECTROCHEMICAL PROPERTIES
EFFECT OF PHOTODEPOSITION OF NICKEL ON THE PHOTOCATALYTIC, PHOTOELECTROCHEMICAL AND SURFACE PROPERTIES OF CDS 6
PHOTOELECTRON SPECTROSCOPIC STUDY
A PHOTOELECTRON SPECTROSCOPIC STUDY OF THE INTERACTION OF OXYGEN,NITROGEN AND TRANSITION METALS WITH C-60 FILMS F22
PHOTOINITIATOR
PHOTOPOLYMERIZATION OF METHYL METHACRYLATE USING DICHLOROACETIC ACID AND DIMETHYLANILINE COMBINATION AS PHOTOINITIATOR 71
PHOTOLYSIS
TRIPLET STATE AND SEMIQUINONE FREE RADICAL OF 5-METHOXYQUINIZARIN: A LASER FLASH PHOTOLYSIS AND PULSE RADIOLYSIS STUDY 811
PHOTOPHYSICAL STUDIES
PHOTOPHYSICAL STUDIES ON BUCKMINSTERFULLERENE:C-60 F46
PHOTOPHYSICS
SOME ASPECTS OF PHOTOPHYSICS OF DYES AND SELF-AGGREGATION PHENOMENON IN SOLUTION 500
PHOTOPOLYMERIZATION
PHOTOPOLYMERIZATION OF METHYL METHACRYLATE USING DICHLOROACETIC ACID AND DIMETHYLANILINE COMBINATION AS PHOTOINITIATOR 71
PHYSICOCHEMICAL INVESTIGATION
PHYSICOCHEMICAL INVESTIGATION OF THE REACTIONS OF SOME ORGANOPHOSPHINE DERIVATIVES WITH CYANOGEN HALIDES 951
PHYSICOCHEMICAL STUDIES
PHYSICOCHEMICAL STUDIES ON ZINC DICAPRYLATE 756
PHYSICO-CHEMICAL STUDIES ON THERMAL DECOMPOSITION OF STRONTIUM AND BARIUM TRIS(MALONATO)FERRATES(III).x.H2O 596
PI COMPLEXES
SIGMA-BONDED ORGANOMETALLICS OF IRON AND THEIR FACILE CONVERSION INTO PI COMPLEXES 699
PICRATE COMPLEXES
SYNTHESIS AND CHARACTERIZATION OF SOME TRANSITION METAL PICRATE COMPLEXES WITH ISONICOTINIC ACID HYDRAZIDE 892
PILLAY M KRISHNA
KINETICS OF OXIDATION OF PARA- AND META-SUBSTITUTED BENZALDEHYDES BY PYRIDINIUM CHLOROCHROMATE 46
KINETICS OF REACTION OF TRIETHYLAMMONIUM CARBOXYLATES WITH ALFA-HALOGENO CARBONYL COMPOUNDS IN ORGANIC SOLVENTS:PART 3 — EFFECT OF SOLVENTS ON THE REACTION OF PHENACYLBROMIDE WITH TRIETHYLAMMONIUM ACETATE 427
PINTO IVAN SEE BHAT K ISHWAR 49
PITRE K S SEE VERMA NEERAJ 210
PLASTIC MEMBRANE
PLASTIC MEMBRANE POH-ELECTRODE BASED ON CHLORPROMAZINE BASE 881
PLASTICIZATION PHENOMENA
PLASTICIZATION PHENOMENA AND FIRE RETARDANCY IN PVC 590
PLATINUM
HYDROGEN SPILLOVER ON A PLATINUM/CARBON FUEL CELL CATALYST 957
SEPARATION OF PLATINUM AND PALLADIUM USING A CHELATING RESIN CONTAINING QUINALDINIC ACID AMIDE GROUP 735
SOLVENT EXTRACTION — ELECTROTHERMAL ATOMIC ABSORPTION ANALYSIS OF PLATINUM IN HETEROGENOUS SUPPORTED CATLYSTS 39
PLATINUM ELECTRODE
KINETICS OF HYDROGEN EVOLUTION REACTION ON BRIGHT PLATINUM ELECTRODE IN AQUEOUS DIMETHYLFORMAMIDE SOLUTIONS BY CYCLIC VOLTAMMETRY 86
PLATINUM(II)
COMPLEXES OF NI(II), PD(II) AND PT(II)

	PAGE
WITH S-TRIAZINE DERIVATIVES	160
MIXED LIGAND COMPLEXES OF PALLADIUM(II) AND PLATINUM(II) WITH METHIONINE AND PURINES	106
MIXED LIGAND COMPLEXES OF PLATINUM(II) WITH HISTIDINE AS PRIMARY LIGAND AND PURINES, PYRIMIDINES AND NUCLEOSIDES AS SECONDARY LIGANDS	28
SYNTHESIS AND SPECTRAL STUDIES OF PT(II) COMPLEXES WITH 2,3-DISUBSTITUTED QUINAZOLINE-(3H)-4-ONES	970
SYNTHESIS, CHARACTERIZATION AND CYTOTOXICITY OF (3,4-DIAMINOBENZOIC ACID)-HALOPLATINUM(II)/PALLADIUM(II)	102
PLATINUM(IV)	
TRIMETHYLPLATINUM(IV) COMPLEXES WITH DIPHENYLTHIOPHOSPHINIC ACID	131
PLUTONIUM(IV)	
STUDIES ON THE SELECTIVE CARRIER-MEDIATED TRANSPORT OF PLUTONIUM(IV) IONS THROUGH TRIBUTYL PHOSPHATE/DODECANE LIQUID MEMBRANES	323
POBI MAYA	
SEPARATION AND RECOVERY OF VANADIUM FROM A CHELATING ION EXCHANGER CONTAINING N-BENZOYLPHENYL HYDROXYLAMINE AS A FUNCTIONAL GROUP	288
PODDAR R K SEE SARKER S C	966
POLARISATION	
STUDIES ON CONCENTRATION POLARISATION IN A MEMBRANE MODULE	342
POLISHCHUK A YA SEE IORDANSKII A L	366
POLOVNYAK V K SEE MIKHAILOV O V	54
POLY(2-VINYL-N-METHYLPYRIDINIUM IODIDE)	
PERMEABILITY PROPERTIES OF POLYELECTROLYTE COMPLEXES FROM CARBOXYMETHYLCELLULOSE AND POLY(2-VINYL-N-METHYLPYRIDINIUM IODIDE)	334
POLY(ANILINE)	
EFFECT OF SUBSTITUENTS ON THE CRYSTAL STRUCTURE OF POLY(ANILINE)	43
POLY(N-SUBSTITUTED PHENYLMALEIMIDE)	
NEW CATION EXCHANGER OF POLY(N-SUBSTSITUTED PHENYLMALEIMIDE) TYPE	386
POLYACENES	
CYCLIC CONJUGATION IN BENZO-ANNELATED POLYACENES	647
POLYACRYLAMIDE-SUPPORTED AMINOLIGANDS	
COMPLEXATION OF CROSSLINKED POLYACRYLAMIDE-SUPPORTED AMINOLIGANDS WITH CU(II): EFFECT OF CROSSLINKING ON COMPLEXATION KINETICS	673
POLYANILINE	
ELECTROMEMBRANE FROM POLYELECTROLYTE COMPLEX OF POLYANILINE AND CARBOXYMETHYLCELLULOSE	338
POLYELECTROLYTE COMPLEX	
ELECTROMEMBRANE FROM POLYELECTROLYTE COMPLEX OF POLYANILINE AND CARBOXYMETHYLCELLULOSE	338
PERMEABILITY PROPERTIES OF POLYELECTROLYTE COMPLEXES FROM CARBOXYMETHYLCELLULOSE AND POLY(2-VINYL-N-METHYLPYRIDINIUM IODIDE)	334
POLYMERS	
STUDIES ON ULTRAFILTRATION MEMBRANE SYSTEMS BASED ON CELLULOSIC AND POLYSULFONE POLYMERS	376
TAILORING ELECTRICALLY CONDUCTING POLYMERS: AN OVERVIEW	291
POLYSACCHARIDE	
STUDIES ON INTERACTION OF CATIONIC DYE WITH BACTERIAL ACIDIC POLYSACCHARIDE	77
POLYSTYRENE SUPPORTED CHELATING RESIN	
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES	110
POLYSULFONE POLYMERS	
STUDIES ON ULTRAFILTRATION MEMBRANE SYSTEMS BASED ON CELLULOSIC AND POLYSULFONE POLYMERS	376
POTASSIUM	
SYNTHESIS AND CHARACTERISATION OF SODIUM, POTASSIUM, GUANIDINIUM AND TETRAMETHYLAMMONIUM SALTS OF 17-TUNGSTOVANADODIARSENATE(V)	64
POTASSIUM CHROMATE	
CHEMICAL INSTABILITY AND PERIODIC PRECIPITATION OF CUCRO4 IN BATCH AND FLOW REACTORS	612
POTDAR H S	
DIELECTRIC CHARACTERIZATION OF BTO-DERIVED BARIUM TITANATE (BaTiO3) CERAMICS	870
POTENTIOMETRIC STUDIES	
POTENTIOMETRIC STUDIES ON ELECTROLYTICALLY GENERATED MANAGANES(III) ACETATE IN AQUEOUS ACETIC ACID: OXIDATION OF THIOSEMICARBAZIDE, ITS METAL COMPLEXES AND THIOSEMICARBAZONES	49
PPH3	
REACTIVITY OF PPH3 TOWARD RU2CL(O2CME)4:SYNTHESIS AND X-RAY CRYSTAL STRUCTURE OF [RU(O2CME)(MECN)2-(PPH3)2](CLO4)	408
PRABHAKAR B SEE LAXMA REDDY K	970
PRABHAKAR L D	
1,3-BIS(SALICYLIDINEAMINO)THIOUREA DIHYDRATE AS AN ANALYTICAL REAGENT FOR THE DIRECT SPECTROPHOTOMETRIC DETERMINATION OF CO(II) IN NATURAL SAMPLES	704
PRADEEP T	
INVESTIGATIONS OF IRON ADDUCTS OF C-60: A NOVEL FeC-60 IN THE SOLID STATE WITH FE INSIDE THE C-60 CAGE	F17
SEE RAO C N R	F27
F5	
SEE VIJAYAKRISHNAN V	F22
PRADHAN JYOTSNAMAYEE SEE DASH ANADI C	824
PRAGASAM R SEE VENKATARAMAN D	270
PRAKASH ADITYA SEE VISHNOI MINAKSHI	788
PRAKASH RAO A SEE TAQUI KHAN M M	146
PRASAD CHANDAN SEE JAIN ABHAY K	569
PRASAD D S N SEE SHARMA MADHU	723
PRASAD RAO M SEE VENKATA LALITHA T	309
PRASAD S	
SYNTHESIS AND CHARACTERIZATION OF MOLECULAR SIEVES WITH VFI TOPOLOGY AND THEIR TRANSFORMATION TO ALPO4-8	737
PRASEODYMIUM(III)	
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS	855
PRE-ACTIVATION HEAT TREATMENT	
HOT ATOM CHEMISTRY IN OXYANION TARGETS;	

PAGE

PART V – PRE-ACTIVATION HEAT TREATMENT STUDY OF RECOIL MN-56 IN PERMANGANATES 651
PRECIPITATION
CHEMICAL INSTABILITY AND PERIODIC PRECIPITATION OF CUCRO4 IN BATCH AND FLOW REACTORS 612
PREFACE
PREFACE (SPECIAL ISSUE ON FULLERENES) F1
PREM RAJ SEE SINGHAL KIRAN 797
PROCESSING PARAMETERS
EFFECT OF PROCESSING PARAMETERS ON BI-SR-CA-CU-O-SYSTEM 270
PROTOCATECHUIC ACID
COLUMN PRECONCENTRATION OF PALLADIUM USING PROTOCATECHUIC ACID AND TETRADECYLDIMETHYLBENZYLAMMONIUM-IODIDE-NAPHTHALENE AS AN ADSORBENT 67
PROTON-NOBLE GAS ATOM COLLISIONS
NONLINEAR DYNAMICS IN PROTON NOBLE GAS ATOM COLLISIONS 483
PSYCHOTROPIC DRUGS
LIQUID MEMBRANE PHENOMENA IN THE MULTIPLE ACTIONS OF PSYCHOTROPIC DRUGS 533
PULSE RADIOLYSIS STUDY
TRIPLET STATE AND SEMIQUINONE FREE RADICAL OF 5-METHOXYQUINIZARIN: A LASER FLASH PHOTOLYSIS AND PULSE RADIOLYSIS STUDY 811
PURI B K SEE SATAKE M 67
PURINES
MIXED LIGAND COMPLEXES OF PALLADIUM(II) AND PLATINUM(II) WITH METHIONINE AND PURINES 106
MIXED LIGAND COMPLEXES OF PLATINUM(II) WITH HISTIDINE AS PRIMARY LIGAND AND PURINES, PYRIMIDINES AND NUCLEOSIDES AS SECONDARY LIGANDS 28
STUDIES ON ORGANOMERCURY(II)-PURINE COMPLEXES 972
PUSHKARNA ANAL SEE ISHWAR DAS 612
PVC
PLASTICIZATION PHENOMENA AND FIRE RETARDANCY IN PVC 590
PYRIDINE
CONDUCTANCE BEHAVIOUR OF COPPER(II) PERCHLORATE IN WATER-DMSO AND WATER-PYRIDINE MIXTURES 782
SYNTHESIS AND CHARACTERISATION OF HALOGENOCOBALT(III) COMPLEXES OF 3,8-DIMETHYL-5,6-BENZO-4,7-DIAZADECA-3,7-DIENE-2,9-DIONE DIOXIME WITH SUBSTITUTED PYRIDINES 800
PYRIDINIUM CHLOROCHROMATE
KINETICS OF OXIDATION OF PARA- AND META-SUBSTITUTED BENZALDEHYDES BY PYRIDINIUM CHLOROCHROMATE 46
KINETICS OF OXIDATION OF SOME MONOSACCHARIDES BY PYRIDINIUM CHLOROCHROMATE (PCC) 97
PYRIDINIUM FLUOROCHROMATE
CORELATION ANALYSIS OF REACTIVITY IN THE OXIDATION OF SUBSTITUTED MALONIC ACIDS BY PYRIDINIUM FLUOROCHROMATE 706
PYRIDINOLYSIS
ABOUT THE PYRIDINOLYSIS OF 2,4-DINITROPHENYL ACETATE IN 50% V/V ACETONITRILE-WATER (LETTER TO EDITOR) 70
PYRIMIDINES
MIXED LIGAND COMPLEXES OF PLATINUM(II) WITH HISTIDINE AS PRIMARY LIGAND AND PURINES, PYRIMIDINES AND NUCLEOSIDES AS SECONDARY LIGANDS 28
PYROLYTIC GRAPHITE ELECTRODE
ELECTROCHEMICAL OXIDATION OF 2-AMINOBENZIMIDAZOLE AT PYROLYTIC GRAPHITE ELECTRODE 794
QUAN WEI SEE RONGSHENG LI 449
QUINALDINIC ACID
SEPARATION OF PLATINUM AND PALLADIUM USING A CHELATING RESIN CONTAINING QUINALDINIC ACID AMIDE GROUP 735
QUINAZOLINE-(3H)-4-ONES
SYNTHESIS AND SPECTRAL STUDIES OF PT(II) COMPLEXES WITH 2,3-DISUBSTITUTED QUINAZOLINE-(3H)-4-ONES 970
RADIOACTIVE LIQUID WASTE
SEPARATION OF THORIUM FROM RADIOACTIVE LIQUID WASTE BY OXAL PROCESS 808
RADIOLYSIS
EFFECT OF ALKALI HALIDE ADDITIVES ON THE GAMMA RADIOLYSIS OF THORIUM NITRATE 915
TRIPLET STATE AND SEMIQUINONE FREE RADICAL OF 5-METHOXYQUINIZARIN: A LASER FLASH PHOTOLYSIS AND PULSE RADIOLYSIS STUDY 811
RAI A K SEE SAXENA A K 469
RAI AUDHESH K SEE KAUSHIK AJAY 281
RAI SACHCHIDA N
A THEORETICAL INVESTIGATION OF THE LOWEST B(U) STATE OF TRANS-BUTADIENE 215
RAJASEKHARAN PILLAI V N SEE MATHEW BEENA 673
RAJATHIRUMONI P
HETEROBINUCLEAR COMPLEX FORMATION BY IMINODIACETIC ACID AND DL-2,3-DIAMINOPROPIONIC ACID WITH SOME TRANSITION METAL IONS – PART I 760
RAJENDRAN G SEE SREEKUMAR T K 782
RAJU D B SEE SRIVASTAVA R C 533
RAMA RAO K S SEE KHAJA MASTHAN S 436
RAMACHANDHRAN V SEE THOMAS K C 376
RAMACHANDRIAH G SEE MADHAVA A S 947
SEE TAQUI KHAN M M 457
RAMAKRISHNA K SEE VERMA G D 495
RAMAKRISHNAN V SEE RUFUS I BERNARD 6
RAMALINGAM S K
MONOPYRIDINE IODINE(I) CHLORIDE IN ETHANOL AS A NEW IODINATING REAGENT FOR METAL BETA-DIKETONES AND KETONEIMINES 702
RAMAN N S SEE VENKATARAMAN D 270
RAMANI M P S SEE THOMAS K C 376
RAMASESHA S
TOWARDS A CORRELATED ELECTRONIC STRUCTURE OF FULLERENES F56
RANDHAWA B S SEE BASSI P S 596
RANI ASHU SEE BHARGAVA RACHNA 683
RAO A L J SEE ATAMJYOT 480
RAO C N R
NITROGEN DERIVATIVES OF C-60 AND C-70 : INTERACTION OF FULLERENES WITH NITROGEN IN GAS PHASE AND WITH AMINES IN SOLUTION PHASE F27
PREFACE (SPECIAL ISSUE ON FULLERENES) F1
PREPARATION, CHARACTERIZATION AND PROPERTIES OF C-60 AND C-70: SPECTROSCOPY, STRUCTURE, ANION INTERACTION WITH ELECTRON DONORS AND SUPERCONDUCTIVITY F5
SEE PRADEEP T F17
SEE VIJAYAKRISHNAN V F22
RARE EARTH OXIDES
REACTIVITY AND ELECTRIC TRANSPORT OF

PAGE

NONSTOICHIOMETRIC RARE EARTH OXIDES 601
RASTOGI R SEE AGARWAL D D 785
RATAN LAL
THE PROBLEM OF CONDUCTING AND SUPERCONDUCTING FULLERIDES F100
RATE OF FORWARD EXTRACTION
KINETIC STUDIES ON THE SOLVENT EXTRACTION OF IRON(III) FROM AQUEOUS SOLUTION WITH 1-PHENYL-3-METHYL-4-(P-NITROBENZOYL)PYRAZOL-5-ONE DISSOLVED IN CHLOROFORM: RATE OF FORWARD EXTRACTION 981
RATHNA A
SIMPLE STRUCTURAL AND BONDING REPRESENTATIONS OF FULLERENES F51
RAY SUBRATA K
KINETICS OF HYDROGEN EVOLUTION REACTION ON BRIGHT PLATINUM ELECTRODE IN AQUEOUS DIMETHYLFORMAMIDE SOLUTIONS BY CYCLIC VOLTAMMETRY 56
RAZUMOVSKII L P SEE IORDANSKII A L 366
REACTIVITY
REACTIVITY AND ELECTRIC TRANSPORT OF NONSTOICHIOMETRIC RARE EARTH OXIDES 601
REDDY P RABINDRA
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS 855
REDOX MEMBRANE POTENTIAL
STUDIES ON REDOX MEMBRANE POTENTIALS 581
REDUCTION KINETICS
KINETICS OF THE REDUCTION OF HEXACHLOROIRIDATE(IV) BY L-METHIONINE IN AQUEOUS SOLUTIONS 975
REFINERY WASTE WATERS
REMOVAL OF PHENOL FROM REFINERY WASTE WATERS USING LIQUID SURFACTANT MEMBRANES IN A CONTINUOUS COLUMN CONTACTOR 361
REINFORCED CHOLESTEROL MEMBRANE
STUDIES ON ELECTROCHEMICAL CHARACTERIZATIN OF REINFORCED CHOLESTEROL MEMBRANE 273
RESIN
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES 110
REVERSE ELECTRODIALYSIS
ELECTRIC POWER PRODUCED FROM TWO SOLUTIONS OF UNEQUAL SALINITY BY REVERSE ELECTRODIALYSIS 348
REVERSIBLE BINDING
REVERSIBLE BINDING OF CARBON MONOXIDE WITH RU(III) AMINOPOLYCARBOXYLIC ACID COMPLEXES 883
REVERSIBLE COMPLEXATION
MICELLAR EFFECTS ON THE REACTIONS OF COMPLEX IONS IN SOLUTION: PART 12 - KINETICS OF REVERSIBLE COMPLEXATION OF OXALATOPENTAAMMINECOBALT(III) WITH NICKEL(II) AND IRON(III) IN THE PRESENCE OF ANIONIC MICELLES OF SODIUM DODECYL SULPHATE IN AQUEOUS MEDIUM 166
REACTIONS IN MICELLAR SOLUTIONS: PART 13(1) - KINETICS AND MECHANISM OF THE REVERSIBLE COMPLEXATION OF IRON(III) BY (ALFA BETA S)(TETRAETHYLENEPENTAMINE) (SALICYLATO)COBALT(III) AND CIS(AMMINE)BIS(ETHYLENEDIAMINE)(SALICYLATO)COBALT(III) IONS IN AQUEOUS ANIONIC MICELLAR MEDIUM 412
ROHATGI-MUKHERJEE K K
SOME ASPECTS OF PHOTOPHYSICS OF DYES AND SELF-AGGREGATION PHENOMENON IN SOLUTION 500
RONGSHENG LI
A NEW CATALYST FOR THE PREPARATION OF OLEATE OF GLYCERIN 449
ROY S K
SYNTHESIS AND CHARACTERISATION OF SODIUM, POTASSIUM, GUANIDINIUM AND TETRAMETHYLAMMONIUM SALTS OF 17-TUNGSTOVANADODIARSENATE(V) 64
ROYCHAUDHURI NIRMALENDU SEE SAHA SAILESH C 260
RU(HEDTA)(OH2)
VOLTAMMETRY OF [RU(HEDTA)(OH2)] AT HMDE 457
[RU(O2CME)(MECN)2(PPH3)2](CLO4)
REACTIVITY OF PPH3 TOWARD RU2CL(O2CME)4:SYNTHESIS AND X-RAY CRYSTAL STRUCTURE OF [RU(O2CME)(MECN)2-(PPH3)2](CLO4) 408
RU2CL(O2CME)4
REACTIVITY OF PPH3 TOWARD RU2CL(O2CME)4:SYNTHESIS AND X-RAY CRYSTAL STRUCTURE OF [RU(O2CME)(MECN)2-(PPH3)2](CLO4) 408
RUBIDIUM CAPRYLATE
CONDUCTIVITY, VISCOSITY AND ULTRASONIC STUDIES OF RUBIDIUM CAPRYLATE 452
RUFUS I BERNARD
EFFECT OF PHOTODEPOSITION OF NICKEL ON THE PHOTOCATALYTIC, PHOTOELECTROCHEMICAL AND SURFACE PROPERTIES OF CDS 6
RUTHENIUM
SULPHATO COMPLEXES OF BI- AND TRI-VALENT RUTHENIUM 966
RUTHENIUM CATALYSTS
STRUCTURE SENSITIVE NITROGEN CHEMISORPTION ON SUPPORTED RUTHENIUM CATALYSTS 436
RUTHENIUM(II)
DIFFERENT BINDING MODES OF DIMETHYLGLYOXIME (DMG-H2) TOWARDS RU(II) ION: SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF [RU(II)CL2(DMG-H2)(DMSO)2] AND SYNTHESIS OF [RU(II)CL(DMG-H2)2(DMSO)]CL AND [RU(II)(DMG-H)2(DMSO)2] 17
KINETIC AND MECHANISTIC STUDIES ON SUBSTITUTION REACTION OF AQUA-LIGANDS FROM CIS-DIAQUABIS[2-M-TOLYLAZO)-PYRIDINE]RUTHENIUM(II) ION WITH 2,2'-BIPYRIDINE IN AQUEOUS MEDIUM 688
SYNTHESIS AND CHARACTERIZATION OF RUTHENIUM(II) SCHIFF BASE CARBONYL COMPLEXES 191
RUTHENIUM(III)
REVERSIBLE BINDING OF CARBON MONOXIDE WITH RU(III) AMINOPOLYCARBOXYLIC ACID COMPLEXES 883
THE STOICHIOMETRY AND KINETICS OF OXIDATION OF 1,4-BENZENEDIOL BY DIAQUOTETRAKIS(2,2'-BIPYRIDINE)-MU-OXODIRUTHENIUM(III) CATION IN PERCHLORATE MEDIUM 943
RUTHENIUM(V)
OXYGEN ATOM TRANSFER REACTIONS BY RU(V) OXO COMPLEXES: MODELS BY CYTOCHROME P450 OXIDASE 146
$ LIGANDS

PAGE

SYNTHESIS, ELECTRONIC, INFRARED AND MOSSBAUER SPECTROSCOPIC STUDIES OF MIXED LIGAND COMPLEXES OF MONO- AND BIS(N,N'-DIETHYLDITHIOCARBAMATO)IRON(III) WITH O,N AND S CONTAINING CHELATING LIGANDS AND THEIR THERMAL DECOMPOSITION 849
SAHA CHITTA R SEE MUKHERJEE DEB K 243
SEE SANTRA(KARAK) SWAPNA 160
SAHA SAILESH C
STUDIES ON THE COMPLEXES OF 3-(O-CARBOXYPHENYL)-1-PHENYLTRIAZENE 1-OXIDE:PART II - NICKEL(II) COMPLEX AND ITS REACTION PRODUCTS WITH SOME NEUTRAL N-DONORS 260
SAHA SWAPAN K SEE MAHAMMAD ALI 171
SAHOO K K SEE PANDA H P 978
SAI PRASAD P S SEE KHAJA MASTHAN S 436
SAINI RENU SEE JAGAN NATH 626
SALEH M B
A URANYL SELECTIVE ELECTRODE BASED ON NEUTRAL BIDENTATE ORGANOPHOSPHORUS COMPOUNDS 12
SALICYLALDEHYDE
HYDRAZONES DERIVED BY THE CONDENSATION OF 4-METHOXYBENZOYL HYDRAZIDE WITH SALICYLALDEHYDE, O-HYDROXYACETOPHENONE AND DIACETYLMONOXIME AS LIGANDS FOR COBALT (II & III) 937
SYNTHESIS AND CHARACTERIZATION OF COMPLEXES OF NICKEL(II), COPPER(II), COBALT(II) AND COBLAT(III) WITH MORPHOLINE N-THIOHYDRAZONES FORMED FROM SALICYLALDEHYDE AND 2-HYDROXYACETOPHENONE 34
SALINITY
ELECTRIC POWER PRODUCED FROM TWO SOLUTIONS OF UNEQUAL SALINITY BY REVERSE ELECTRODIALYSIS 348
SANDEEP KAUR SEE BASSI P S 596
SANKARANARAYANA PILLAI M
SEE SIVASANKARAN NAIR M 865
SANTHANALAKSHMI J
MICROSTRUCTURE AND DYNAMICS OF W/O MICROEMULSIONS 630
SANTHOSH C
OXYGEN-MEDIATED SPECTRAL OSCILLATIONS IN BIOMOLECULES AND IMPORTANCE OF COEXISTING TAUTOMERS: CASE OF GUANINE 558
SANTRA A K SEE VIJAYAKRISHNAN V F22
SANTRA P K SEE SANTRA(KARAK) SWAPNA 160
SANTRA(KARAK) SWAPNA
COMPLEXES OF NI(II), PD(II) AND PT(II) WITH S-TRIAZINE DERIVATIVES 160
SAPRE A V SEE PALIT D K F46
SARANGI K
PERTRACTION OF COPPER(II) IN THE PRESENCE OF COBALT(II), NICKEL(II), MANGANESE(II) AND IRON(II) USING SUPPORTED LIQUID MEMBRANE 379
SARDER S I SEE AHMED I 699
SARKER S C
SULPHATO COMPLEXES OF BI- AND TRI-VALENT RUTHENIUM 966
SARMA P V R B SEE MOHAPATRA R 389
SASTRY V S SEE SUNDAR C S F92
SATAKE M
COLUMN PRECONCENTRATION OF PALLADIUM USING PROTOCATECHUIC ACID AND TETRADECYLDIMETHYLBENZYLAMMONIUM-IODIDE-NAPHTHALENE AS AN ADSORBENT 67

PAGE

SATYANARAYANA T
KINETICS OF OXIDATION OF BIS(2,2',6',2"-TERPYRIDINE)IRON(II) BY CERIUM(IV) 125
SAWANT A D SEE MORE P S 984
SAXENA A K
SEVEN COORDINATED ORGANOTIN(IV) COMPLEXES OF 1,3-DIHYDRO-1,3-DIOXO-ALFA-(SUBSTITUTED)-2H-ISOINDOLE-2-ACETIC ACIDS 469
SAXENA CHITRA
SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF SOME ORGANOBORON COMPLEXES WITH NITROGEN DONOR AZOMETHINES 963
SAXENA M C SEE LIMAYE S N 403
SAXENA S SEE SAXENA A K 469
SAYAJI RAO
COMPLEXES OF CHROMIUM(III), COBALT(II), NICKEL(II), COPPER(II) & MOLYBDENUM(VI) WITH INDANE 1,3-DIONE-2-ISONICOTINOYLHYDRAZONE 58
SCALE INVARIANCE BEHAVIOUR
A NEW SCALE INVARIANCE BEHAVIOUR IN FRACTAL SCATTERING 954
SCF METHOD
A BOND ORBITAL APPROACH TO THEORETICAL STUDIES OF MOLECULAR PROPERTIES FROM A FULLY LOCALISED SCF METHOD 1
SCHIFF BASE CARBONYL COMPLEXES
SYNTHESIS AND CHARACTERIZATION OF RUTHENIUM(II) SCHIFF BASE CARBONYL COMPLEXES 191
SCHIFF BASE COMPLEXES
HOMOGENEOUS CATALYTIC HYDROGENATION OF ORGANIC COMPOUNDS USING ORTHOMETALLATE SCHIFF BASE COMPLEXES OF PALLADIUM(II) 243
OLEFIN EPOXIDATION USING IRON(III)SCHIFF BASE COMPLEXES AS CATALYST 785
SCHIFF BASE LIGANDS
BINARY COMPLEXES IN SOLUTION OF SCHIFF BASE LIGANDS, O-HYDROXYNAPHTHALIDENE BENZOYL AND SALICYLOYL HYDRAZONE WITH THORIUM, URANYL AND VANADYL IONS AND TERNARY COMPLEXES OF THORIUM WITH AMINOPOLYCARBOXYLIC ACIDS AS PRIMARY LIGANDS 764
SCHIFF BASES
STUDIES ON ELECTRODE KINETICS OF SCHIFF BASES IN AQUEOUS AND DMF MEDIA 947
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES 110
SYNTHESIS AND CHARACTERISATION OF BIS(ETA5-CYCLOPENTADIENYL) N-N'-DISUBSTITUTED SCHIFF BASE COMPLEXES OF TITANIUM(IV) 61
SYNTHESIS AND CHARACTERIZAION OF NI(II), CU(II) AND ZN(II) COMPLEXES WITH A TETRADENTATE THIOIMINATO SCHIFF BASE LIGAND 195
SEAL B K SEE CHATTERJEE D K 232
SELF-AGGREGATION PHENOMENON
SOME ASPECTS OF PHOTOPHYSICS OF DYES AND SELF-AGGREGATION PHENOMENON IN SOLUTION 500
SEMIQUINONE FREE RADICAL
TRIPLET STATE AND SEMIQUINONE FREE RADICAL OF 5-METHOXYQUINIZARIN: A LASER FLASH

	PAGE
PHOTOLYSIS AND PULSE RADIOLYSIS STUDY	811
SEMWAL R P	
CORRELATION OF SOME PHYSICAL PROPERTIES OF ALIPHATIC MONOALCOHOLS AND AMINES BY GRAPH THEORY	141
SEN B SEE SENGUPTA A C	909
SEN B K	
A BOND ORBITAL APPROACH TO THEORETICAL STUDIES OF MOLECULAR PROPERTIES FROM A FULLY LOCALISED SCF METHOD	1
SEN GUPTA ARUP K	
HETEROCYCLIC COMPOUNDS CONTAINING ANTIMONY: PART 5 - SYNSTHESIS AND SPECTRAL STUDIES OF SOME FIVE-MEMBERED HETEROCYCLES CONTAINING ANTIMONY AS HETEROATOM	23
SEN K SEE SILADITYA B	116
SENGUPTA A C	
INVESTIGATION OF CR(3+) SUBSTITUTED (GAMMA)-FE2O3 CATALYST IN ITS ACTIVE FORM	909
SESHADRI RAM SEE RAO C N R	F27
	F5
SEE VIJAYAKRISHNAN V	F22
SETHURAM B SEE VENKATA LALITHA T	309
SHAH A	
SYNTHESIS AND CHARACTERIZATION OF CHLORO-ACETYLACETONATO-, AND ALKOXO-NONAISOPROPOXODIZIRCONATOIRON(III) DERIVATIVES	886
SHAH P R	
PERMSELECTIVITY OF ACETATE ION TO NITRATE ION IN ELECTRODIALYSIS OF AQUEOUS SOLUTIONS	369
SHAIKH Z A SEE TAQUI KHAN M M	191
SHARMA ANSHU SEE GOSWAMI A N	361
SHARMA MADHU	
KINETICS OF OXIDATION OF NITRITE BY PEROXOMONOSULPHATE	723
SHARMA N K	
EFFECT OF 3-FLUORO-4-CYANO SUBSTITUTED BENZOATES IN THE FORMATION OF INDUCED SMECTIC PHASES WITH N-[4-ETHOXYBENZYLIDENE]-4'-N-BUTYLANILINE	658
SHARMA NEERAJ SEE CHAUDHARY S C	279
SHARMA P K SEE SINGH PREM P	619
SHARMA RITA SEE CHAUHAN ASHOK K S	475
SHARMA S K SEE GOSWAMI A N	361
SHARMA S P SEE SHARMA V K	398
SHARMA UMA SEE MAHADEVAN NEENA	383
SHARMA V K	
EXCESS MOLAR VOLUMES OF BINARY MIXTURES CONTAINING NITROTOULENE AT 308.15 K	721
THERMODYNAMICS OF BINARY MIXTURES OF NON-ELECTROLYTES: MOLAR EXCESS GIBBS FREE ENERGY OF MIXING	398
SHERIGARA B S SEE BHAT K ISHWAR	49
SHIT SUBHAS CHANDRA SEE MAITI SUKUMAR	219
SHIVANEKAR ANJALI	
SYNTHESIS, CHARACTERISATION AND REACTIVITY OF CU(II) AMINE COMPLEXES SUPPORTED ON AN INORGANIC ION EXCHANGER, ZIRCONIUM MOLYBDATE	771
SEE PATEL PRAMOD	803
SHOBHA H K SEE KISHORE K	590
SHOUKRY ADEL F	
PLASTIC MEMBRANE POH-ELECTRODE BASED ON CHLORPROMAZINE BASE	881
SHRIRIN ZAHIDA SEE TAQUI KHAN M M	303
SHRIVASTAVA B D	
X-RAY K-ABSORPTION SPECTRAL STUDIES OF SOME COPPER(II) MIXED LIGAND COMPLEXES WITH GLYCINE AS PRIMARY LIGAND	929
SHROTRI J J SEE BAGUL A G	661
SHUKLA J P	
STUDIES ON THE SELECTIVE CARRIER-MEDIATED TRANSPORT OF PLUTONIUM(IV) IONS THROUGH TRIBUTYL PHOSPHATE/DODECANE LIQUID MEMBRANES	323
SEE ANIL KUMAR	373
SHUKLA P C	
PERMEATION THROUGH URINARY BLADDER MEMBRANES	565
SHUKLA P R	
SYNTHESIS, CHARACTERIZATION AND REACTIONS OF DIORGANOTIN(IV) COMPLEXES WITH SOME N2S2 DONOR LIGANDS DERIVED FROM 2-AMINOTHIOPHENOL	205
SHUKLA S N SEE SINGH H	472
SI2B3H5	
CONTRASTING ISOMER STABILITIES OF SILABORANES AND CARBORANES: SI2B3H5 AND C2B3H5 ISOMERS	645
SIDHU K S	
THIONINE-TRIETHYLAMINE INTERACTIONS IN MIXED SOLVENTS	83
SIDHU M S SEE LOBANA TARLOK S	726
SIKKANDAR G	
KINETICS AND MECHANISM OF OXIDATION OF GAMMA-OXOACIDS BY ACID PERMANGANATE	845
SILABORANES	
CONTRASTING ISOMER STABILITIES OF SILABORANES AND CARBORANES: SI2B3H5 AND C2B3H5 ISOMERS	645
SILADITYA B	
SOLVENT EXTRACTION EQUILIBRIA OF PALLADIUM(II) COMPLEX WITH 5,8-DIETHYL-7-HYDROXYDODECAN-6-ONE OXIME IN SOME ORGANIC DILUENTS	116
SINGH A SEE DUBEY R K	156
SEE SHAH A	886
SINGH ARCHANA SEE SINGH KEHAR	874
SINGH H	
SYNTHESIS, CHARACTERIZATION AND FUNGITOXICITY OF CU(II), NI(II), ZN(II), CO(II), FE(III) AND MN(III) CHELATES WITH (5-PHENYL-1,3,4-OXADIAZOL-2-YL)-N-BENZOYL DITHIOCARBAMATE	472
SINGH JYOTI SEE MISHRA SHUDDHODAN P	651
SINGH KEHAR	
ELECTROCHEMICAL CHARACTERIZATION OF MEMBRANES	313
ELECTROCHEMICAL STUDIES ON ZIRCONIUM PHOSPHATE-KYNAR COMPOSITE ION EXCHANGE MEMBRANE SYSTEM	874
STUDIES ON REDOX MEMBRANE POTENTIALS	581
SINGH M M SEE SYAMAL A	110
SINGH N B	
ORGANIC SOLID STATE REACTIVITY - REACTION BETWEEN ALPHA-NAPHTHOL AND 1,4-NAPHTHAQUINONE	608
SEE SINGH P P	586
SINGH N P SEE SINGH N B	608
SINGH P SEE KUSHWAH R S	439
SINGH P P	
NEW SOFTNESS PARAMETERS AND HAMMETT'S EQUATION	586
SINGH PREM P	
SOLVATION BEHAVIOUR OF CUPRIC CHLORIDE IN	

PAGE

[illegible] 227
TOPOLOGICAL AND [illegible]
INVESTIGATIONS OF [illegible] INTERACTIONS
IN SOME LOWER AMIDES + WATER MIXTURES 619
SINGH R K SEE ANIL KUMAR 373
SINGH R V SEE SAXENA CHITRA 963
SINGH RAJENDRA PRASAD SEE MISHRA LALLAN 195
SINGH RANDHIR SEE LOBANA TARLOK S 726
SINGH SATBIR SEE SIDHU K S 83
SINGH SUMAN SEE MEHROTRA K N 756
SINGH YASH PAL SEE KAUSHIK AJAY 281
SINGH YASHWANT
LOCALIZATION OF EXCESS ELECTRONS IN
DEFORMABLE MEDIA 539
SINGHAL KIRAN
STUDIES ON BETA-DIKETONATE AND BETA-
DIKETOESTER DERIVATIVES OF TRI-AND TETRA-
ORGANOANTIMONY(V) 797
SINHA P K
SEPARATION OF THORIUM FROM RADIOACTIVE
LIQUID WASTE BY OXAL PROCESS 808
SIVARAMAN N SEE DHAMODARAN R F32
SIVASANKARAN NAIR M
STUDIES ON COPPER(II) AND ZINC(II) MIXED
LIGAND COMPLEXES INVOLVING SOME
POTENTIALLY TRIDENTATE LIGANDS 865
SEE RAJATHIRUMONI P 760
SMECTIC PHASES
EFFECT OF 3-FLUORO-4-CYANO SUBSTITUTED
BENZOATES IN THE FORMATION OF INDUCED
SMECTIC PHASES WITH N-[4-
ETHOXYBENZYLIDENE]-4'-N-BUTYLANILINE 658
SODHI G S
STUDIES ON ORGANOMERCURY(II)-PURINE
COMPLEXES 972
SODIUM
CONVERSION OF METHANOL OVER METAL SALTS OF
12-MOLYBDOPHOSPHORIC ACID 921
SYNTHESIS AND CHARACTERISATION OF SODIUM,
POTASSIUM, GUANIDINIUM AND
TETRAMETHYLAMMONIUM SALTS OF 17-
TUNGSTOVANADODIARSENATE(V) 64
SODIUM DODECYL SULPHATE
MICELLAR EFFECTS ON THE REACTIONS OF
COMPLEX IONS IN SOLUTION: PART 12 -
KINETICS OF REVERSIBLE COMPLEXATION OF
OXALATOPENTAAMMINECOBALT(III) WITH
NICKEL(II) AND IRON(III) IN THE PRESENCE
OF ANIONIC MICELLES OF SODIUM DODECYL
SULPHATE IN AQUEOUS MEDIUM 166
SODIUM LAURYL SULFATE MICELLES
INFLUENCE OF SODIUM LAURYL SULFATE
MICELLES ON THE OXIDATION OF MALONIC ACID
BY CHROMIC ACID 710
SODIUM MONOFLUORO PHOSPHATE
FLUORIDATION OF OH-APATITE ON INTERACTION
WITH SODIUM MONOFLUORO PHOSPHATE 276
SODIUM TETRAPHENYLBORATE
STUDY ON THERMODYNAMICS OF AQUEOUS
SOLUTION OF SODIUM TETRAPHENYLBORATE 443
SODIUM-N-BROMOBENZENESULPHONAMIDE
KINETICS AND MECHANISM OF OXIDATION OF
MONOSACCHARIDES BY SODIUM-N-
BROMOBENZENESULPHONAMIDE IN ALKALINE
MEDIUM 838
SOFTNESS PARAMETERS
NEW SOFTNESS PARAMETERS AND HAMMETT'S
EQUATION 586
SOLID ELECTRODES

PAGE

ELECTROCHEMICAL OXIDATION [illegible]-6-
DIHYDROXYTRYPTAMINE AT S[illegible]CTRODES 693
SOLID STATE REACTIVITY
ORGANIC SOLID STATE REACTIVITY - REACTION
BETWEEN ALPHA-NAPHTHOL AND 1,4-
NAPHTHAQUINONE 608
SOLUTE-SOLVENT INTERACTIONS
STUDIES ON SOLUTE-SOLVENT INTERACTIONS IN
AQUEOUS SOLUTION OF ISOMERIC MONO-
HYDROXYBENZOATE SALTS 232
SOLUTION PHASE
NITROGEN DERIVATIVES OF C-60 AND C-70 :
INTERACTION OF FULLERENES WITH NITROGEN
IN GAS PHASE AND WITH AMINES IN SOLUTION
PHASE F27
SOLVATION BEHAVIOUR
SOLVATION BEHAVIOUR OF CUPRIC CHLORIDE IN
NON-AQUEOUS SOLVENTS 227
SOLVATION MODELS
SOLVATION MODELS IN THE REACTION BETWEEN
BENZYL BROMIDE AND S-TRIAZOLE 959
SOLVENT EXTRACTION
EXTRACTIVE AND SPECTROPHOTOMETRIC
DETERMINATION OF CO(II) AT TRACE LEVELS
USING ISONITROSO-4-METHYL-2-PENTANONE 984
KINETIC STUDIES ON THE SOLVENT EXTRACTION
OF IRON(III) FROM AQUEOUS SOLUTION WITH 1-
PHENYL-3-METHYL-4-(P-NITROBENZOYL)PYRAZOL-
5-ONE DISSOLVED IN CHLOROFORM: RATE OF
FORWARD EXTRACTION 981
SOLVENT EXTRACTION - ELECTROTHERMAL
ATOMIC ABSORPTION ANALYSIS OF PLATINUM IN
HETEROGENOUS SUPPORTED CATLYSTS 39
SOLVENT EXTRACTION EQUILIBRIA OF
PALLADIUM(II) COMPLEX WITH 5,8-DIETHYL-7-
HYDROXYDODECAN-6-ONE OXIME IN SOME
ORGANIC DILUENTS 116
SONI MANJULA SEE SINGH PREM P 227
SOOD A K SEE KRISHNAMURTHY H R F64
SOUND VELOCITY
EVALUATION OF SOUND VELOCITY IN BINARY
SYSTEMS OF ANISOLE WITH SOME AROMATIC
COMPOUNDS BY DIFFERENT METHODS 577
SPECTRAL OSCILLATIONS
OXYGEN-MEDIATED SPECTRAL OSCILLATIONS IN
BIOMOLECULES AND IMPORTANCE OF COEXISTING
TAUTOMERS: CASE OF GUANINE 558
SPECTROPHOTOMETRIC DETERMINATION
1,3-BIS(SALICYLIDINEAMINO)THIOUREA
DIHYDRATE AS AN ANALYTICAL REAGENT FOR
THE DIRECT SPECTROPHOTOMETRIC
DETERMINATION OF CO(II) IN NATURAL SAMPLES 704
EXTRACTIVE AND SPECTROPHOTOMETRIC
DETERMINATION OF CO(II) AT TRACE LEVELS
USING ISONITROSO-4-METHYL-2-PENTANONE 984
SPECTROPHOTOMETRIC DETERMINATION OF
MOLYBDENUM IN STEEL 480
SPECTROSCOPIC STUDIES
COMPLEX PEROXOVANADATES(V) CONTAINING
CHELATED CYSTEINATE AS THE CO-LIGAND:
SYNTHESIS AND SPECTROSCOPIC STUDIES 466
SYNTHESIS AND SPECTROSCOPIC STUDIES OF DI-
S- AND T-BUTYLTIN(IV) CARBOXYLATES 861
SPECTROSCOPY
MICROSTRUCTURE AND GLASS TRANSITION
TEMPERATURE DETERMINATION OF STYRENE-
METHYL ACRYLATE COPOLYMERS BY C-13 NMR
SPECTROSCOPY 903
SPIFF A I SEE OGWUEGBU M O C 981

	PAGE
SR-FERRITE	
CHEMICAL PROCESSING OF HEXAGONAL SR-FERRITE: PART II — EFFECT OF MODE OF WASHING AND FILTRATON ON THE MAGNETIC PARAMETERS	661
SREEKUMAR T K	
CONDUCTANCE BEHAVIOUR OF COPPER(II) PERCHLORATE IN WATER-DMSO AND WATER-PYRIDINE MIXTURES	782
SRINIVAS MOHAN M SEE KOTESWAR RAO A	256
SRINIVAS S T SEE MAHIPAL REDDY B	957
SRINIVASAN BHARGAVI SEE RAMASESHA S	F56
SRINIVASAN T G SEE DHAMODARAN R	F32
SRINIVASULU REDDY G	
VOLTAMMETRY OF 1-(M-CHLOROPHENYL)-3-PHENYL-1,2-EPOXYPROPAN-3-ONE	732
SRIVASTAVA A K SEE AGRAWAL B P	778
SRIVASTAVA A P	
EVALUATION OF SOUND VELOCITY IN BINARY SYSTEMS OF ANISOLE WITH SOME AROMATIC COMPOUNDS BY DIFFERENT METHODS	577
SRIVASTAVA AMIT K SEE GOYAL R N	794
SRIVASTAVA O N SEE LALLA N P	F79
SEE VERMA G D	495
SRIVASTAVA R C	
LIQUID MEMBRANE PHENOMENA IN THE MULTIPLE ACTIONS OF PSYCHOTROPIC DRUGS	533
SEE MISHRA L	393
SRIVASTAVA RAJESH K SEE JAIN ABHAY K	569
SRIVASTAVA RAMESH C SEE CHAUHAN ASHOK K S	475
SRIVASTAVA T S SEE JAIN N	102
SRIVASTAVA V K SEE SINGH H	472
STEEL	
SPECTROPHOTOMETRIC DETERMINATION OF MOLYBDENUM IN STEEL	480
STEPHEN MARY SEE CHATTERJEE CHINMAY	898
STRONTIUM	
PHYSICO-CHEMICAL STUDIES ON THERMAL DECOMPOSITION OF STRONTIUM AND BARIUM TRIS(MALONATO)FERRATES(III).x.H2O	596
STRUCTURE SENSITIVE NITROGEN CHEMISORPTION	
STRUCTURE SENSITIVE NITROGEN CHEMISORPTION ON SUPPORTED RUTHENIUM CATALYSTS	436
STYRENE	
ALTERNATING COPOLYMERIZATION OF ZINC ACRYLATE WITH STYRENE INITIATED BY AS2S3-STYRENE COMPLEX	778
MICROSTRUCTURE AND GLASS TRANSITION TEMPERATURE DETERMINATION OF STYRENE-METHYL ACRYLATE COPOLYMERS BY C-13 NMR SPECTROSCOPY	903
SUBBANNA G N SEE RAO C N R	F5
SUBRAMANIAN G SEE JEMMIS ELUVATHINGAL D	645
SUBSTITUTION	
CRYSTAL AND MOLECULAR STRUCTURE OF AQUOETHYLENEDIAMINE-TETRAACETATORUTHENIUM(III) AND ITS EXTRAORDINARY LABILITY TOWARDS SUBSTITUTION	303
SUBSTITUTION REACTION	
KINETIC AND MECHANISTIC STUDIES ON SUBSTITUTION REACTION OF AQUA-LIGANDS FROM CIS-DIAQUABIS(2-M-TOLYLAZO)-PYRIDINE)RUTHENIUM(II) ION WITH 2,2'-BIPYRIDINE IN AQUEOUS MEDIUM	600
KINETICS AND MECHANISM OF THE SUBSTITUTION REACTION OF ETHYLENEDIAMINETETRAACETATO RUTHENATE(III) WITH CYANIDE IN AQUEOUS SOLUTION	714
SUDHA C SEE SIVASANKARAN NAIR M	865
SULPHATO COMPLEXES	
SULPHATO COMPLEXES OF BI- AND TRI-VALENT RUTHENIUM	966
SULPHUR DIOXIDE	
SURFACE-MEDIATED AUTOXIDATION OF AQUEOUS SO2 IN CERAMIC POWDER SUSPENSIONS	683
SUNDAR C S	
STUDIES ON STRUCTURAL AND ELECTRONIC PROPERTIES OF UNDOPED AND DOPED FULLERENES C-60 AND C-70	F92
SUNITA SEE BRAR A S	903
SUPERCONDUCTING FULLERIDES	
THE PROBLEM OF CONDUCTING AND SUPERCONDUCTING FULLERIDES	F100
SUPERCONDUCTIVITY	
ON THE ORIGIN OF SUPERCONDUCTIVITY AND ANOMALOUS NORMAL STATE PROPERTIES OF DOPED SOLID C-60	F104
PREPARATION, CHARACTERIZATION AND PROPERTIES OF C-60 AND C-70: SPECTROSCOPY, STRUCTURE, ANION INTERACTION WITH ELECTRON DONORS AND SUPERCONDUCTIVITY	F5
SUPERCONDUCTOR	
ON THE SYNTHESIS AND ELECTRON MICROSCOPIC CHARACTERISATION OF TL(BI)-SR-CA-CU-O HIGH TEMPERATURE SUPERCONDUCTOR	495
SUPPORTED LIQUID MEMBRANES	
MACROCYCLE-FACILITATED TRANSPORT OF URANYL IONS ACROSS SUPPORTED LIQUID MEMBRANES USING DICYCLOHEXANO-18-CROWN-6 AS MOBILE CARRIER	373
PERTRACTION OF COPPER(II) IN THE PRESENCE OF COBALT(II), NICKEL(II), MANGANESE(II) AND IRON(II) USING SUPPORTED LIQUID MEMBRANE	379
SEPARATION OF CO(II)-ZN(II), CO(II)-MN(II) AND ZN(II)-MN(II) SYSTEMS FROM THEIR BINARY SOLUTIONS THROUGH SUPPORTED LIQUID MEMBRANE CONTAINING ORGANOPHOSPHORUS ACID AS EXTRACTANT	389
SUPPORTED RUTHENIUM CATALYSTS	
STRUCTURE SENSITIVE NITROGEN CHEMISORPTION ON SUPPORTED RUTHENIUM CATALYSTS	436
SUREKHA DEVI SEE NAYAR ANJALI	134
SURFACE PROPERTIES	
EFFECT OF PHOTODEPOSITION OF NICKEL ON THE PHOTOCATALYTIC, PHOTOELECTROCHEMICAL AND SURFACE PROPERTIES OF CDS	6
SURFACE-MEDIATED AUTOXIDATION	
SURFACE-MEDIATED AUTOXIDATION OF AQUEOUS SO2 IN CERAMIC POWDER SUSPENSIONS	683
SURFACTANT MEMBRANES	
REMOVAL OF PHENOL FROM REFINERY WASTE WATERS USING LIQUID SURFACTANT MEMBRANES IN A CONTINUOUS COLUMN CONTACTOR	361
SURFACTANTS	
BINDING OF SURFACTANTS ONTO DNA AND SOLUBILIZATION OF DNA/SURFACTANT COMPLEX IN MICELLES	432
SURYAPRAKASH N R SEE RAO C N R	F5
SWELLING FREE ENERGIES	
THERMODYNAMIC EQUILIBRIUM CONSTANTS OF ALKALI METAL ION-HYDROGEN ION EXCHANGES AND RELATED SWELLING FEEE ENERGIES IN PERFLUOROSULPHONATE IONOMER MEMBRANE (NAFION-117) IN AQUEOUS MEDIUM	317
SYAMAL A	

PAGE

SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES 110

SZAMMER J
OXIDATIONS WITH PERMANGANATE IN A STRONG ALKALINE MEDIUM: CALCULATION OF DEPROTONATION CONSTANT 417

TALELE GANGADHAR G
SYNTHESIS AND CHARACTERIZATION OF HOMO AND HETERO TRINUCLEAR ALKOXIDES 889

TAQUI KHAN BADAR
MIXED LIGAND COMPLEXES OF PALLADIUM(II) AND PLATINUM(II) WITH METHIONINE AND PURINES 106
MIXED LIGAND COMPLEXES OF PLATINUM(II) WITH HISTIDINE AS PRIMARY LIGAND AND PURINES, PYRIMIDINES AND NUCLEOSIDES AS SECONDARY LIGANDS 28

TAQUI KHAN M M
CRYSTAL AND MOLECULAR STRUCTURE OF AQUOETHYLENEDIAMINE-TETRAACETATORUTHENIUM(III) AND ITS EXTRAORDINARY LABILITY TOWARDS SUBSTITUTION 303
DIFFERENT BINDING MODES OF DIMETHYLGLYOXIME (DMG-H2) TOWARDS RU(II) ION: SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF [RU(II)CL2(DMG-H2)(DMSO)2] AND SYNTHESIS OF [RU(II)CL(DMG-H2)2(DMSO)]CL AND [RU(II)(DMG-H)2(DMSO)2] 17
HYDROGEN BONDING OR TRANSIENT COORDINATION OF PENDANT GROUP: CAUSE FOR LABILITY IN LIGAND SUBSTITUTION REACTION OF AMINOPOLYCARBOXYLATORUTHENIUM (III) COMPLEXES 152
KINETICS AND MECHANISM OF THE SUBSTITUTION REACTION OF ETHYLENEDIAMINETETRAACETATO RUTHENATE(III) WITH CYANIDE IN AQUEOUS SOLUTION 714
OXYGEN ATOM TRANSFER REACTIONS BY RU(V) OXO COMPLEXES: MODELS BY CYTOCHROME P450 OXIDASE 146
REVERSIBLE BINDING OF CARBON MONOXIDE WITH RU(III) AMINOPOLYCARBOXYLIC ACID COMPLEXES 883
SYNTHESIS AND CHARACTERIZATION OF RUTHENIUM(II) SCHIFF BASE CARBONYL COMPLEXES 191
VOLTAMMETRY OF [RU(HEDTA)(OH2)] AT HMDE 457

TARTARIC ACID
DIRECT PRODUCTION OF PURE CONCENTRATED TARTARIC ACID FROM ITS SALTS BY ELECTROMEMBRANE PROCESSES 355

TAUTOMERS
OXYGEN-MEDIATED SPECTRAL OSCILLATIONS IN BIOMOLECULES AND IMPORTANCE OF COEXISTING TAUTOMERS: CASE OF GUANINE 558

TETRACHLOROETHENE
VISCOMETRIC BEHAVIOUR OF BINARY SYSTEMS OF METHYL ETHYL KETONE WITH METHYLENE CHLORIDE, 1,2-DICHLOROETHANE, TRICHLOROETHENE, TETRACHLOROETHENE AND CYCLOHEXANE 626

TETRADECYLDIMETHYLBENZYLAMMONIUM-IODIDE-NAPHTHALENE
COLUMN PRECONCENTRATION OF PALLADIUM USING PROTOCATECHUIC ACID AND TETRADECYLDIMETHYLBENZYLAMMONIUM-IODIDE-NAPHTHALENE AS AN ADSORBENT 67

TETRAETHYLENEPENTAMINE
REACTIONS IN MICELLAR SOLUTIONS: PART 13(1) — KINETICS AND MECHANISM OF THE REVERSIBLE COMPLEXATION OF IRON(III) BY (ALFA BETA S)(TETRAETHYLENEPENTAMINE)(SALICYLATO)COBALT(III) AND CIS(AMMINE)BIS(ETHYLENEDIAMINE)(SALICYLATO)COBALT(III) IONS IN AQUEOUS ANIONIC MICELLAR MEDIUM 412

TETRAMETHYLAMMONIUM SALTS
SYNTHESIS AND CHARACTERISATION OF SODIUM, POTASSIUM, GUANIDINIUM AND TETRAMETHYLAMMONIUM SALTS OF 17-TUNGSTOVANADODIARSENATE(V) 64

TETRAOXOMOLYBDATO COMPLEXES
TETRAOXOMOLYBDATO AND TETRAOXOTUNGSTATO COMPLEXES OF IRON(II) DIIMINES 896

TETRAOXOTUNGSTATO COMPLEXES
TETRAOXOMOLYBDATO AND TETRAOXOTUNGSTATO COMPLEXES OF IRON(II) DIIMINES 896

THANIKACHALAM V SEE PRABHAKAR L D 704

THERMAL DECOMPOSITION
PHYSICO-CHEMICAL STUDIES ON THERMAL DECOMPOSITION OF STRONTIUM AND BARIUM TRIS(MALONATO)FERRATES(III).x.H2O 596
SYNTHESIS, ELECTRONIC, INFRARED AND MOSSBAUER SPECTROSCOPIC STUDIES OF MIXED LIGAND COMPLEXES OF MONO- AND BIS(N,N'-DIETHYLDITHIOCARBAMATO)IRON(III) WITH O,N AND S CONTAINING CHELATING LIGANDS AND THEIR THERMAL DECOMPOSITION 849

THERMODYNAMIC EQUILIBRIUM CONSTANTS
THERMODYNAMIC EQUILIBRIUM CONSTANTS OF ALKALI METAL ION-HYDROGEN ION EXCHANGES AND RELATED SWELLING FEEE ENERGIES IN PERFLUOROSULPHONATE IONOMER MEMBRANE (NAFION-117) IN AQUEOUS MEDIUM 317

THERMODYNAMIC INVESTIGATIONS
TOPOLOGICAL AND THERMODYNAMIC INVESTIGATIONS OF MOLCULAR INTERACTIONS IN SOME LOWER AMIDES + WATER MIXTURES 619

THILLAI ARASU P SEE RAJATHIRUMONI P 760
SEE SIVASANKARAN NAIR M 865

THIOACETIC ACID
KINETICS OF OXIDATION OF THIOACETIC ACID BY METHYLENE BLUE IN METHANOL-WATER MEDIUM 728

THIOCYANATE
KINETICS AND MECHANISM OF OXIDATION OF THIOCYANATE ION WITH PEROXOMONOPHOSPHORIC ACID 91

THIOIMINATO SCHIFF BASE LIGANDS
CARRIER MEDIATED TRANSPORT THROUGH LIQUID MEMBRANES — STUDIES ON TRANSPORT OF NICKEL IONS USING TETRADENTATE THIOIMINATO SCHIFF BASE LIGANDS AS CARRIERS 393

THIONINE
THIONINE-TRIETHYLAMINE INTERACTIONS IN MIXED SOLVENTS 83

THIOSEMICARBAZIDE
POTENTIOMETRIC STUDIES ON ELECTROLYTICALLY GENERATED MANAGANES(III) ACETATE IN AQUEOUS ACETIC ACID: OXIDATION OF THIOSEMICARBAZIDE, ITS METAL COMPLEXES

INDEX

	PAGE
AND THIOSEMICARBAZONES	49
THIOSEMICARBAZONES	
KINETICS AND MECHANISM OF OXIDATION OF THIOSEMICARBAZONES BY ACID BROMATE	175
POTENTIOMETRIC STUDIES ON ELECTROLYTICALLY GENERATED MANAGANES(III) ACETATE IN AQUEOUS ACETIC ACID: OXIDATION OF THIOSEMICARBAZIDE, ITS METAL COMPLEXES AND THIOSEMICARBAZONES	49
THOMAS K C	
STUDIES ON ULTRAFILTRATION MEMBRANE SYSTEMS BASED ON CELLULOSIC AND POLYSULFONE POLYMERS	376
THORIUM	
BINARY COMPLEXES IN SOLUTION OF SCHIFF BASE LIGANDS, O-HYDROXYNAPHTHALIDENE BENZOYL AND SALICYLOYL HYDRAZONE WITH THORIUM, URANYL AND VANADYL IONS AND TERNARY COMPLEXES OF THORIUM WITH AMINOPOLYCARBOXYLIC ACIDS AS PRIMARY LIGANDS	764
EFFECT OF ALKALI HALIDE ADDITIVES ON THE GAMMA RADIOLYSIS OF THORIUM NITRATE	915
SEPARATION OF THORIUM FROM RADIOACTIVE LIQUID WASTE BY OXAL PROCESS	808
TIN(IV)	
STUDY ON THE IMMOBILIZATION BEHAVIOUR OF BARIUM,CADMIUM, AND ANTIMONY OVER SN(IV) AND CE(IV) OXIDES	120
TITANIUM(IV)	
SYNTHESIS AND CHARACTERISATION OF BIS(ETA5 -CYCLOPENTADIENYL) N-N'-DISUBSTITUTED SCHIFF BASE COMPLEXES OF TITANIUM(IV)	61
TIWARI A K	
STUDIES ON ELECTROCHEMICAL CHARACTERIZATIN OF REINFORCED CHOLESTEROL MEMBRANE	273
SEE SINGH KEHAR	313
TL(BI)-SR-CA-CU-O SUPERCONDUCTOR	
ON THE SYNTHESIS AND ELECTRON MICROSCOPIC CHARACTERISATION OF TL(BI)-SR-CA-CU-O HIGH TEMPERATURE SUPERCONDUCTOR	495
TOLUENE	
SUBSTITUTED ALPO4-11 MOLECULAR SIEVES- SAPO-11 AND COAPO-11:SYNTHESIS, ACIDITY AND ALKYLATION OF TOLUENE WITH METHANOL	742
TOPOLOGICAL INVESTIGATIONS	
TOPOLOGICAL AND THERMODYNAMIC INVESTIGATIONS OF MOLCULAR INTERACTIONS IN SOME LOWER AMIDES + WATER MIXTURES	619
TRACE ANALYSIS	
TRACE ANALYSIS OF GREEN SANDSTONE BY VOLTAMMETRY	210
TRANSIENT COORDINATION	
HYDROGEN BONDING OR TRANSIENT COORDINATION OF PENDANT GROUP: CAUSE FOR LABILITY IN LIGAND SUBSTITUTION REACTION OF AMINOPOLYCARBOXYLATORUTHENIUM (III) COMPLEXES	152
TRANSITION METAL PICRATE COMPLEXES	
SYNTHESIS AND CHARACTERIZATION OF SOME TRANSITION METAL PICRATE COMPLEXES WITH ISONICOTINIC ACID HYDRAZIDE	892
TRANSPORT	
CARRIER MEDIATED TRANSPORT THROUGH LIQUID MEMBRANES - STUDIES ON TRANSPORT OF NICKEL IONS USING TETRADENTATE THIOIMINATO SCHIFF BASE LIGANDS AS CARRIERS	393
TRANSPORT OF ALKALI METAL CATIONS THROUGH LIQUID MEMBRANE USING NON-CYCLIC SYNTHETIC IONOPHORES	383
TRANSPORT OF WATER THROUGH CELLULOSE DERIVATIVES USED AS THE COVER OF OSMOTIC SYSTEMS FOR DRUG RELEASE	366
TRI-DENTATE LIGANDS	
STUDIES ON COPPER(II) AND ZINC(II) MIXED LIGAND COMPLEXES INVOLVING SOME POTENTIALLY TRIDENTATE LIGANDS	865
TRIARYLANTIMONY	
REACTIONS OF TRIARYLANTIMONY WITH SOME CARBOXYLIC ACIDS	475
S- TRIAZINE DERIVATIVES	
COMPLEXES OF NI(II), PD(II) AND PT(II) WITH S-TRIAZINE DERIVATIVES	160
S- TRIAZOLE	
SOLVATION MODELS IN THE REACTION BETWEEN BENZYL BROMIDE AND S-TRIAZOLE	959
TRIBUTYL PHOSPHATE	
STUDIES ON THE SELECTIVE CARRIER-MEDIATED TRANSPORT OF PLUTONIUM(IV) IONS THROUGH TRIBUTYL PHOSPHATE/DODECANE LIQUID MEMBRANES	323
TRICHLOROETHENE	
VISCOMETRIC BEHAVIOUR OF BINARY SYSTEMS OF METHYL ETHYL KETONE WITH METHYLENE CHLORIDE, 1,2-DICHLOROETHANE, TRICHLOROETHENE, TETRACHLOROETHENE AND CYCLOHEXANE	626
TRICHLOROISOCYANURIC ACID	
KINETICS OF NUCLEAR CHLORINATION OF SUBSTITUTED PHENYL ACETATES BY TRICHLOROISOCYANURIC ACID	978
TRIETHYLAMINE	
THIONINE-TRIETHYLAMINE INTERACTIONS IN MIXED SOLVENTS	83
TRIETHYLAMMONIUM ACETATE	
KINETICS OF REACTION OF TRIETHYLAMMONIUM CARBOXYLATES WITH ALFA-HALOGENO CARBONYL COMPOUNDS IN ORGANIC SOLVENTS:PART 3 - EFFECT OF SOLVENTS ON THE REACTION OF PHENACYLBROMIDE WITH TRIETHYLAMMONIUM ACETATE	427
TRIETHYLAMMONIUM CARBOXYLATES	
KINETICS OF REACTION OF TRIETHYLAMMONIUM CARBOXYLATES WITH ALFA-HALOGENO CARBONYL COMPOUNDS IN ORGANIC SOLVENTS:PART 3 - EFFECT OF SOLVENTS ON THE REACTION OF PHENACYLBROMIDE WITH TRIETHYLAMMONIUM ACETATE	427
TRIMETHYLPLATINUM(IV)	
TRIMETHYLPLATINUM(IV) COMPLEXES WITH DIPHENYLTHIOPHOSPHINIC ACID	131
TRINUCLEAR ALKOXIDES	
SYNTHESIS AND CHARACTERIZATION OF HOMO AND HETERO TRINUCLEAR ALKOXIDES	889
TRIPHENYLPHOSPHINE	
KINETICS OF RELEASE OF DITHIZONE FROM MERCURY(II) DITHIZONATE BY TRIPHENYLPHOSPHINE	726
TRIPLET STATE	
TRIPLET STATE AND SEMIQUINONE FREE RADICAL OF 5-METHOXYQUINIZARIN: A LASER FLASH PHOTOLYSIS AND PULSE RADIOLYSIS STUDY	811
TRIPODAL LIGAND TRIS(2-BENZIMIDAZOLYL METHYL)AMINE	
SYNTHESIS AND EPR OF OLIGOMERIC MANGANESE(II) COMPLEXES OF A TRIPODAL LIGAND TRIS(2-BENZIMIDAZOLYL METHYLAMINE	

PAGE

AND ITS N-ETHYL DERIVATIVES 666
TRIS(2-BENZIMIDAZOLYL METHYLAMINE
SYNTHESIS AND EPR OF OLIGOMERIC MANGANESE(II) COMPLEXES OF A TRIPODAL LIGAND TRIS(2-BENZIMIDAZOLYL METHYLAMINE AND ITS N-ETHYL DERIVATIVES 666
TUNGSTATE
USE OF ZIRCONIUM TUNGSTATE IN ACID CATALYSIS: SOME ESTERIFICATION REACTIONS 803
17- TUNGSTOVANADODIARSENATE(V)
SYNTHESIS AND CHARACTERISATION OF SODIUM, POTASSIUM, GUANIDINIUM AND TETRAMETHYLAMMONIUM SALTS OF 17-TUNGSTOVANADODIARSENATE(V) 64
UDUPA H V K SEE BHAT K ISHWAR 49
UDUPA M R SEE LAKSHMANAN VASANTHI 806
896
ULLAH S S SEE AHMED I 699
ULTRAFILTRATION MEMBRANE SYSTEMS
STUDIES ON ULTRAFILTRATION MEMBRANE SYSTEMS BASED ON CELLULOSIC AND POLYSULFONE POLYMERS 376
ULTRAMICROELECTRODES
ELECTROCHEMICAL STUDIES AT ULTRAMICROELECTRODES 633
ULTRASONIC STUDIES
CONDUCTIVITY, VISCOSITY AND ULTRASONIC STUDIES OF RUBIDIUM CAPRYLATE 452
UMARANI C SEE PRABHAKAR L D 704
UPADHYAY K K SEE MISHRA LALLAN 642
UPADHYAY S SEE MISHRA L 393
UPADHYAYA M K SEE SINGH H 472
URANIUM(VI)
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES 110
URANYL
BINARY COMPLEXES IN SOLUTION OF SCHIFF BASE LIGANDS, O-HYDROXYNAPHTHALIDENE BENZOYL AND SALICYLOYL HYDRAZONE WITH THORIUM, URANYL AND VANADYL IONS AND TERNARY COMPLEXES OF THORIUM WITH AMINOPOLYCARBOXYLIC ACIDS AS PRIMARY LIGANDS 764
MACROCYCLE-FACILITATED TRANSPORT OF URANYL IONS ACROSS SUPPORTED LIQUID MEMBRANES USING DICYCLOHEXANO-18-CROWN-6 AS MOBILE CARRIER 373
URANYL SELECTIVE ELECTRODE
A URANYL SELECTIVE ELECTRODE BASED ON NEUTRAL BIDENTATE ORGANOPHOSPHORUS COMPOUNDS 12
UREA
MEDIUM EFFECTS ON THE ELECTRON-TRANSFER PROCESSES: REDUCTION OF AQUAPENTAAMMINECOBALT(III) BY HEXACYANOFERRATE(II) IN ETHYLENEGLYCOL-WATER, ETHYLENE CA BONATE-WATER AND UREA-WATER MEDIA 824
URIDINE 5'-MONOPHOSPHATE
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS 855
URINARY BLADDER MEMBRANES

PAGE

PERMEATION THROUGH URINARY BLADDER MEMBRANES 565
VAID BEENA K SEE DUBEY S N 199
VANADIUM
SEPARATION AND RECOVERY OF VANADIUM FROM A CHELATING ION EXCHANGER CONTAINING N-BENZOYLPHENYL HYDROXYLAMINE AS A FUNCTIONAL GROUP 288
VANADYL
BINARY COMPLEXES IN SOLUTION OF SCHIFF BASE LIGANDS, O-HYDROXYNAPHTHALIDENE BENZOYL AND SALICYLOYL HYDRAZONE WITH THORIUM, URANYL AND VANADYL IONS AND TERNARY COMPLEXES OF THORIUM WITH AMINOPOLYCARBOXYLIC ACIDS AS PRIMARY LIGANDS 764
VASANTHACHARYA N Y SEE PRADEEP T F17
VASUDEVARAO P R SEE DHAMODARAN R F32
VENKATA LALITHA T
SODIUM RUTHENATE CATALYSTS IN THE OXIDATION OF SUBSTITUTED BENZYL ALCOHOLS BY HEXACYANOFERRATE(III) 309
VENKATARAMAN D
EFFECT OF PROCESSING PARAMETERS ON BI-SR-CA-CU-O-SYSTEM 270
VENKATASUBRAMANIAN K SEE TAQUI KHAN M M 17
303
VERMA G D
ON THE SYNTHESIS AND ELECTRON MICROSCOPIC CHARACTERISATION OF TL(BI)-SR-CA-CU-O HIGH TEMPERATURE SUPERCONDUCTOR 495
VERMA NEERAJ
TRACE ANALYSIS OF GREEN SANDSTONE BY VOLTAMMETRY 210
VFI TOPOLOGY
SYNTHESIS AND CHARACTERIZATION OF MOLECULAR SIEVES WITH VFI TOPOLOGY AND THEIR TRANSFORMATION TO ALPO4-8 737
VIJAYA KUMARI S SEE TAQUI KHAN BADAR 28
VIJAYAKRISHNAN V
A PHOTOELECTRON SPECTROSCOPIC STUDY OF THE INTERACTION OF OXYGEN, NITROGEN AND TRANSITION METALS WITH C-60 FILMS F22
VIJAYARAGAVAN V R SEE DAYALAN A 800
VINUESA J MANES SEE DOMENECH R GARCIA 423
VISCOMETRIC BEHAVIOUR
VISCOMETRIC BEHAVIOUR OF BINARY SYSTEMS OF METHYL ETHYL KETONE WITH METHYLENE CHLORIDE, 1,2-DICHLOROETHANE, TRICHLOROETHENE, TETRACHLOROETHENE AND CYCLOHEXANE 626
VISCOSITY
CONDUCTIVITY, VISCOSITY AND ULTRASONIC STUDIES OF RUBIDIUM CAPRYLATE 452
VISHALAKSHI B
PERMEABILITY PROPERTIES OF POLYELECTROLYTE COMPLEXES FROM CARBOXYMETHYLCELLULOSE AND POLY(2-VINYL-N-METHYLPYRIDINIUM IODIDE) 334
VISHNOI MINAKSHI
KINETICS AND MECHANISM OF OXIDATION BY METAL IONS: PART XV-OXIDATION OF GLYOXALATE ION BY ALKALINE OSMIUM TETROXIDE 788
VISWANATHAN B SEE RUFUS I BERNARD 6
SEE VENKATARAMAN D 270
VOLTAMMETRY
TRACE ANALYSIS OF GREEN SANDSTONE BY VOLTAMMETRY 210
VOLTAMMETRY OF 1-(M-CHLOROPHENYL)-3-PHENYL-

INDEX

	PAGE
1,2-EPOXYPROPAN-3-ONE	732
VOLTAMMETRY OF [RU(HEDTA)(OH2)] AT HMDE	457
VYAS D N SEE MADHAVA A S	947
WARHADPANDE SEEMA V	
EFFECT OF SUBSTITUENTS ON THE CRYSTAL STRUCTURE OF POLY(ANILINE)	43
WUYANG ZHANG SEE RONGSHENG LI	449
X-RAY CRYSTAL STRUCTURE	
REACTIVITY OF PPH3 TOWARD RU2CL(O2CME)4:SYNTHESIS AND X-RAY CRYSTAL STRUCTURE OF [RU(O2CME)(MECN)2-(PPH3)2](CLO4)	408
X-RAY K-ABSORPTION SPECTRAL STUDIES	
X-RAY K-ABSORPTION SPECTRAL STUDIES OF SOME COPPER(II) MIXED LIGAND COMPLEXES WITH GLYCINE AS PRIMARY LIGAND	929
XIAO-LING WANG SEE LI-ZHUANG ZOU	443
ZINC	
CONVERSION OF METHANOL OVER METAL SALTS OF 12-MOLYBDOPHOSPHORIC ACID	921
HETEROBINUCLEAR COMPLEX FORMATION BY IMINODIACETIC ACID AND DL-2,3-DIAMINOPROPIONIC ACID WITH SOME TRANSITION METAL IONS - PART I	760
ZINC ACRYLATE	
ALTERNATING COPOLYMERIZATION OF ZINC ACRYLATE WITH STYRENE INITIATED BY AS2S3-STYRENE COMPLEX	778
ZINC DICAPRYLATE	
PHYSICOCHEMICAL STUDIES ON ZINC DICAPRYLATE	756
ZINC(II)	
ANION EXCHANGE SELECTIVITIES OF ZN(II), CD(II),HG(II) AND BA(II) IN KI SOLUTIONS	285
COMPLEXING BEHAVIOUR OF BI- AND TERDENTATE LIGANDS WITH SOME BIVALENT METAL ION	199
INTERACTION OF METAL IONS WITH URIDINE 5'-MONOPHOSPHATE: EXISTENCE OF POSSIBLE INTRAMOLECULAR INTERACTIONS	855
SEPARATION OF CO(II)-ZN(II), CO(II)-MN(II) AND ZN(II)-MN(II) SYSTEMS FROM THEIR BINARY SOLUTIONS THROUGH SUPPORTED LIQUID MEMBRANE CONTAINING ORGANOPHOSPHORUS ACID AS EXTRACTANT	389
STUDIES ON BIOLOGICALLY RELEVANT TERNARY METAL COMPLEXES: PART VI - STABILITY OF TERNARY CO(II), NI(II),CU(II) AND ZN(II) COMPLEXES INVOLVING AMINOPOLYCARBOXYLIC ACIDS AND AMINO ACIDS	256
STUDIES ON COPPER(II) AND ZINC(II) MIXED LIGAND COMPLEXES INVOLVING SOME POTENTIALLY TRIDENTATE LIGANDS	865
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES	110
SYNTHESIS AND CHARACTERIZAION OF NI(II), CU(II) AND ZN(II) COMPLEXES WITH A TETRADENTATE THIOIMINATO SCHIFF BASE LIGAND	195
SYNTHESIS, CHARACTERIZATION AND FUNGITOXICITY OF CU(II), NI(II), ZN(II), CO(II), FE(III) AND MN(III) CHELATES WITH (5-PHENYL-1,3,4-OXADIAZOL-2-YL)-N-BENZOYL DITHIOCARBAMATE	472
ZIRCONIUM	
SYNTHESIS AND CHARACTERIZATION OF CHLORO-ACETYLACETONATO-, AND ALKOXO-NONAISOPROPOXODIZIRCONATOIRON(III) DERIVATIVES	886
ZIRCONIUM MOLYBDATE	
SYNTHESIS, CHARACTERISATION AND REACTIVITY OF CU(II) AMINE COMPLEXES SUPPORTED ON AN INORGANIC ION EXCHANGER, ZIRCONIUM MOLYBDATE	771
ZIRCONIUM PHOSPHATE	
ELECTROCHEMICAL STUDIES ON ZIRCONIUM PHOSPHATE-KYNAR COMPOSITE ION EXCHANGE MEMBRANE SYSTEM	874
ZIRCONIUM TUNGSTATE	
USE OF ZIRCONIUM TUNGSTATE IN ACID CATALYSIS: SOME ESTERIFICATION REACTIONS	803
ZIRCONIUM(IV)	
SYNTHESES OF POLYSTYRENE SUPPORTED CHELATING RESIN CONTAINING THE SCHIFF BASE DERIVED FROM 3-FORMYLSALICYLIC ACID AND O-HYDROXYBENZYLAMINE AND ITS COPPER(II), NICKEL(II), IRON(III), ZINC(II), CADMIUM(II), ZIRCONIUM(IV), MOLYBDENUM(V AND VI) AND URANIUM(VI) COMPLEXES	110

Pages with prefix "F" relate to "Special Issue on Fullerenes"